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between two worlds across  
**250,000,000 miles**



*Engineered for life*

## D Subminiature Selector Guide



|  |   |  |   |
|--|---|--|---|
| <b>D- Subminiature</b>                             |  |  |  |
| <b>Series</b>                                      | <b>D*NM</b>   | <b>D*H</b>   | <b>MIL-DTL-24308</b>  |
| <b>Wire Gauge Range<br/>AWG</b>                    | AWG 18 - 30   | up to AWG 20   | AWG 18 - 30   |
| <b>Mating Cycles</b>                               | 500   | 500  | 500   |
| <b>RoHS confirm</b>                                | Available   | No   | No  |
| <b>Layout</b>                                      | 9, 15, 25, 37, 50,<br>15, 26, 44, 62, 78, 104<br>(high density and Combo<br>D)    | 9, 15, 25, 37, 50  | 9, 15, 25, 37, 50,<br>15, 26, 44, 62, 78<br>(high density )                         |
| <b>Operating Voltage</b>                           | 1000 VAC*   | 750 VAC*   | 1700 VAC*   |
| <b>Current Rating<br/>(Amps)</b>                   | 7,5 A max   | 7,5 A max  | 7,5 A max   |
| <b>Contact Resistance</b>                          | 10 milli Ohm max  | 15 milli Ohm max   | 10 milli Ohm max  |
| <b>Operating Temperature</b>                       | -55°C/125°C   | -55°C/125°C  | -50°C/150°C   |
| <b>Mil Salt Spray Test<br/>Resistance in hours</b> | 48 hours  | 48 hours   | 48 hours  |
| <b>Shell Material</b>                              | Copper Alloy  | Steel  | Steel   |
| <b>Shell Finish</b>                                | Gold over Copper (K52)  | Electro-deposited tin over<br>cadmium over copper flash                            | Yellow Chromate over<br>Cadmium or Zinc   |
| <b>Insulator</b>                                   | Thermoplastic,<br>PCT UL94V-0   | Compression Glass  | Thermoplastic,<br>PCT UL 94V-0  |
| <b>Contact Type</b>                                | Turned  | Turned   | Turned  |
| <b>Contact Material</b>                            | Copper Alloy  | Steel  | Copper Alloy  |
| <b>Contact Finish</b>                              | 1,27 µm gold over copper  | Electro-deposited tin over<br>cadmium over copper flash                            | 1,27 µm gold  |
| <b>Page Number</b>                                 | C-9   | J-45   | C-11  |

|  |   |  |   |
|--|---|--|---|
| <b>D- Subminiature</b>                             |  |  |  |
| <b>Series</b>                                      | <b>D*MAM</b>  | <b>D*MM</b>  | <b>D*D</b>  |
| <b>Wire Gauge Range<br/>AWG</b>                    | AWG 18 - 30   | AWG 18-30  | AWG 20 - 24   |
| <b>Mating Cycles</b>                               | 500   | 500  | 500   |
| <b>RoHS confirm</b>                                | No  | No   | No  |
| <b>Layout</b>                                      | 9, 15, 25, 37, 50,<br>15, 26, 44, 62, 78<br>(high density)                        | 9, 15, 25, 37, 50  | 9, 15, 25, 37, 50   |
| <b>Operating Voltage</b>                           | 1700 VAC*   | 1700 VAC*  | 1700 VAC  |
| <b>Current Rating<br/>(Amps)</b>                   | 7,5 A max   | 7,5 A max  | 7,5 A max   |
| <b>Contact Resistance</b>                          | 10 milli Ohm max<br>(Signal Contacts)   | 10 milli Ohm max   | 10 milli Ohm max  |
| <b>Operating Temperature</b>                       | -50°C/150°C   | -50°C/150°C  | -50°C/150°C   |
| <b>Mil Salt Spray Test<br/>Resistance in hours</b> | 48 hours  | 48 hours   | 48 hours  |
| <b>Shell Material</b>                              | Steel   | Steel  | Aluminum  |
| <b>Shell Finish</b>                                | RoHS - Tin/Nickel<br>Yellow chromate over<br>cadmium or zinc                      | RoHS - Tin/Nickel<br>Yellow chromate over<br>cadmium or zinc                       | Yellow chromate over<br>cadmium or zinc   |
| <b>Insulator</b>                                   | Thermoplastic,<br>Type PCT UL 94V-0   | Thermoplastic,<br>PCT UL 94V-0   | Thermoplastic,<br>PCT UL 94V-0  |
| <b>Contact Type</b>                                | Turned  | Turned   | Turned  |
| <b>Contact Material</b>                            | Copper Alloy  | Copper Alloy   | Copper Alloy  |
| <b>Contact Finish</b>                              | 1,27 µm gold  | 1,27 µm gold   | 1,27 µm gold  |
| <b>Page Number</b>                                 | C-11  | C-18   | C-40  |

C  
D Sub

## D Subminiature Selector Guide

|  |   |  |   |
|--|---|--|---|
| <b>D- Subminiature</b>                             |  |  |  |
| <b>Series</b>                                      | <b>D*M</b>  | <b>D*MA</b>  | <b>GD*</b>  |
| <b>Wire Gauge Range<br/>AWG</b>                    | AWG 18-30   | AWG 18-30  | AWG 18-30   |
| <b>Mating Cycles</b>                               | 200,500   | 200,500  | 500   |
| <b>RoHS confirm</b>                                | Available   | Available  | no  |
| <b>Layout</b>                                      | 9, 15, 25, 37, 50   | 9, 15, 25, 37, 50,<br>15, 26, 44, 62, 78, 104<br>(high density)                    | 9, 15, 25, 37, 50,<br>15, 26, 44, 62, 78, 104<br>(high density)                     |
| <b>Operating Voltage</b>                           | 1000 VAC*   | 1000 VAC*  | 1000 VAC*   |
| <b>Current Rating<br/>(Amps)</b>                   | 7,5 A max   | 7,5 A max  | 7,5 A max   |
| <b>Contact Resistance</b>                          | 10 milli Ohm max  | 10 milli Ohm max   | 10 milli Ohm max  |
| <b>Operating Temperature</b>                       | -55°C/125°C   | -55°C/125°C  | -65°C/150°C   |
| <b>Mil Salt Spray Test<br/>Resistance in hours</b> | 20 hours (Mil:48 hours)   | 48 hours   | 48 hours  |
| <b>Shell Material</b>                              | Steel   | Steel  | Steel   |
| <b>Shell Finish</b>                                | RoHS - Tin/Nickel<br>Yellow chromate over<br>cadmium or zinc                      | RoHS - Tin/Nickel<br>Yellow chromate over<br>cadmium or zinc                       | Yellow chromate over<br>cadmium or zinc   |
| <b>Insulator</b>                                   | Thermoplastic,<br>PCT UL 94V-0  | Thermoplastic,<br>PCT UL 94V-0   | Thermoplastic,<br>PCT UL 94V-0  |
| <b>Contact Type</b>                                | Turned  | Turned   | Turned  |
| <b>Contact Material</b>                            | Copper Alloy  | Copper Alloy   | Copper Alloy  |
| <b>Contact Finish</b>                              | Gold over Nickel  | Gold over Nickel   | Gold over Nickel  |
| <b>Page Number</b>                                 | C-9   | C-11   | C-37  |

|  |  |  |
|--|--|--|
| <b>D- Subminiature</b>                             |   |  |
| <b>Series</b>                                      | <b>Combo D</b>   | <b>Stainless Steel-F225</b>  |
| <b>Wire Gauge Range<br/>AWG</b>                    | AWG 8-30   | -  |
| <b>Mating Cycles</b>                               | 50,200,500   | 500  |
| <b>RoHS confirm</b>                                | yes (MIL:no)   | yes  |
| <b>Layout</b>                                      | E: 2W2; 2WK2; 5W1<br>A: 3W3; 3WK3; 7W2; 11W1<br>B: 5W5; 9W4; 13W3; 17W2; 21W1<br>C: 8W8; 13W6; 17W5; 21WA4;<br>25W3; 27W2<br>D: 24W7; 36W4; 43W2; 47W1 | 9,15,25,37,50,<br>15, 26,44,62,78<br>(standard high density<br>and Combo D)        |
| <b>Operating Voltage</b>                           | 500 VAC*   | -  |
| <b>Current Rating<br/>(Amps)</b>                   | 7,5 A max(Signal Contacts)<br>5 A max (Coaxial Contacts)<br>40 A max (High Power Contacts)<br>5 A Max (HV Contacts)                                    | -  |
| <b>Contact Resistance</b>                          | 10 milli Ohm max (Signal Contacts)<br>40 Millivolt Max @ 40A (Power)   | -  |
| <b>Operating Temperature</b>                       | -55°C/125°C (MIL:150°C)  | -55°C/125°C  |
| <b>Mil Salt Spray Test<br/>Resistance in hours</b> | 20 hours (MIL: 48 hours)   | 500 hours  |
| <b>Material</b>                                    | Steel  | Stainless Steel  |
| <b>Finish</b>                                      | Tin  | Passivated   |
| <b>Insulator</b>                                   | Thermoplastic,<br>PCT UL 94V-0   | -  |
| <b>Contact</b>                                     | Turned   | -  |
| <b>Material</b>                                    | Copper Alloy   | -  |
| <b>Finish</b>                                      | Gold over Nickel   | -  |
| <b>Page Number</b>                                 | C-21   | C-7  |

0880  
C

D Sub

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change



D Sub



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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## Solder Cup, Crimp, and PCB Type, Combo-D's with Machined Contacts

Typical Part Number:

**DBM C 13X3 S J 101**

**Product Family Designator**

- D\*M = Solder Cup & Std. Density PCB Industrial/Commercial Version
- D\*MM = Solder Cup & PCB Mil version (50 micro-inch gold contact/plating)
- D\*A = Crimp signal contacts

**Hardware Modifier\***

- = 0.120" (3,05mm) Through Hole
- B = 4-40 Female Screwlock
- C = 90° Metal Bracket, 4-40 Fastener, & Boardlock (D\*M, D\*MM Only)
- D = 90° Metal Bracket, 4-40 Fastener and 4-40 Screwlock (D\*M, D\*MM Only)
- E = 4-40 Clinchnut
- G = 90° Metal Bracket, 4-40 Fastener, 4-40 Screwlock, Boardlock (D\*M, D\*MM)
- H = .300" (7.6mm) Standoff, 4-40 Screwlock (D\*M, D\*MM US Only)
- I = 90° metal bracket, .120" (3.05mm) through hole
- K = 0.162" (4,11mm) Through Hole
- N = .300" (7.6mm) Standoff, 4-40 Screwlock, Boardlock (D\*M, D\*MM Only)
- P = 90° Metal Bracket, 4-40 Fastener (D\*M, D\*MM)
- S = 90° Metal Bracket, M-3 Fastener (D\*M, D\*MM)
- V = .300" (7.6mm) 4-40 Standoff (D\*M, D\*MM Only)
- X = M3 clinchnut
- Y = Dual Float Mount
- Z = .300" (7.6mm) 4-40 Standoff, Boardlock (D\*M, D\*MM Only)
- \* = Shell Sizes are E, A, B, C, D

\* Note: Combo-D hardware and finishes are available on D\*M standard density 9, 15, 25, 37 and 50 position connectors

**Shell Modifier (Standard)\***

- = Yellow chromate over zinc shells
- A101 = Yellow Chromate over Cadmium shells
- F225 = Stainless steel shells (RoHS) (Non Hardware Versions Only)
- A197 = Pure Tin over Nickel Shells (Sockets only, RoHS through hole versions only)
- K87 = Pure Tin over Nickel Shells w/grounding dimples (Pins only, RoHS)

**PC Tail Modifier (Standard)\***

- = Solder Cup (D\*M/D\*MM); Crimp, D\*MA, D\*MAM)
- J = 90° Std. PCB signal contact (.170" lg by .030" )
- N = Straight Std. PCB signal contact (.178" lg by .030 Ø)
- V = 90° Euro PCB signal contact (.157" lg by .024 Ø)
- Y = Straight Euro PCB signal contact (.178" lg by .024 Ø)

**Gender**

- P = Male Plug, Pin
- S = Female Receptacle, Socket

**Layouts - \*Combo D**

- E-2W2; 2WK2K, 9
- (D\*M) A- 5W1; A- 3W3, 3WK3, 7W2, 11W1, 95
- B- 5W5, 9W4, 13W3, 17W2, 21W1, 25
- C- 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2, 37
- D- 24W7, 36W4, 43W2, 47W1, 50

**Combo-D Size 8 Contact Designators:**

- W = w/o Contacts (letters below denote with contacts)
- C = 75 Ohm Coax Contacts Installed, stamped
- X = 50 Ohm Coax Contacts Installed, stamped
- H = High Power Installed
- V = High Voltage Installed (Cable and straight PCB only)
- R = Mini Hi Power 90° Installed
- F = Fiber Optic
- G = Guide Pin
- P = High Power Installed (European)
- M = 50 ohm coax contact installed, machined, 50 microinches gold
- N = 50 ohm coax contact installed, machined, 30 microinches gold

# Military/Hi-Reliability D\*M D-Subminiature Ordering Information - Connector Designator

For Hi-Reliability Crimp, Solder Cup and PCB Type, Standard & Hi-Density Connectors with Machined Contacts

Typical Part Number:

DBM\* E 25 P M NMB A197 FO

**• Product Family Designator**

- D\*M = Solder Cup & Std. Density PCB Industrial/Commercial Version (without spacer for straight PCB)
- D\*MM = Solder Cup & PCB Mil version (50 micro-inch gold contact/plating, with spacer for straight PCB)
- D\*MA = Crimp & Hi-Density PCB Industrial/Commercial Version
- D\*MAM = Crimp/Hi-Density PCB Mil version (50 microinch gold contact plating)

**• Hardware Modifier**

- = 0.120" (3,05mm) Through Hole
- B = 4-40 Female Screwlock
- E = 4-40 Clinchnut
- K = 0.162" (4,11mm) Through Hole
- X = M3 clinchnut
- Y = Dual Float Mount
- \* = Shell Sizes are E, A, B, C, D

- Layouts**
- \*Standard Density (D\*M, D\*MM) 9, 15, 25, 37, 50
  - \*High Density (D\*MA, D\*MAM) 15, 26, 44, 62, 78, 104

- Gender**
- P = Male Plug, Pin
  - S = Female Receptacle, Socket

FO - Without contacts - D\*MA crimp versions only

**• Modifier (standard)**

- Yellow chromate over zinc shells
- A197 Tin over Nickel shells (receptacles only) (RoHS)
- F224 Epoxy sealing of insulator to shell and contacts
- F225 303 Stainless steel, passivated (Thru hole only)
- K52 50 gold over copper plating on shells and contacts
- K87 Tin, dimpled shells (plugs only) (RoHS) (US only)
- K128 K52 gold plating on Aluminum Shells, Nickel Under Plate
- F216 Machined Aluminum Shells, Nickel Under Plate
- A101 Yellow chromate over cadmium

**• Residual Magnetism/Outgassing**

NMB- 200 Gamma Max. Residual Magnetism/<1% TML

**• PC Tail Modifier (Standard Density)**

- = Solder cup (D\*M/D\*MM)
- A = 90° PCB contact w/Plastic Bracket (.99" - .154" lg by .040" Ø)
- B = Straight PCB contact (.99" - .154" lg by .040" Ø)
- C = 90° PCB contact w/o Plastic Bracket (.99" - .154" lg by .040" Ø)
- D = 90° PCB contact w/Plastic Bracket (.99" - .154" lg by .030" Ø)
- E = Straight PCB contact (.99" - .154" lg by .030" Ø)
- F = 90° PCB contact w/o Plastic Bracket (.99" - .154" lg by .030" Ø)
- G = 90° PCB contact w/Plastic Bracket (.130" - .185" lg by .040" Ø)
- H = Straight PCB contact (.130" - .185" lg by .040" Ø)
- K = 90° PCB contact w/o Plastic Bracket (.130" - .185" lg by .040" Ø)
- L = 90° PCB contact w/Plastic Bracket (.130" - .185" lg by .030" Ø)
- M = Straight PCB contact (.130" - .185" lg by .040" Ø)
- P = 90° PCB contact w/o Plastic Bracket (.130" - .185" lg by .030" Ø)
- R = 90° PCB contact w/o Plastic Bracket (.155" - .210" lg by .030" Ø)
- S = 90° PCB contact w/Plastic Bracket (.155" - .210" lg by .030" Ø)
- W = 90° PCB contact w/Plastic Bracket (.155" - .210" lg by .040" Ø)
- X = Straight PCB contact (.155" - .210" lg by .030" Ø)
- Z = Straight PCB contact (.155" - .210" lg by .040" Ø)
- F179 = Straight square PCB or wire wrap contact (.375" by .024")
- F179A = Straight square PCB or wire wrap contact (.500" by .024")

**PC Tail Modifier (High Density)**

- \*\*L = 90° PCB contact w/Plastic Bracket (.140" lg by .021" Ø)
- \*\*M = Straight PCB contact (.140" lg by .021" Ø)
- \*\*P = 90° PCB contact w/o Plastic Bracket (.140" lg by .021" Ø)
- R = 90° PCB contact w/o Plastic Bracket (.197" lg by .021" Ø)
- S = 90° PCB contact w/Plastic Bracket (.197" lg by .021" Ø)
- Z/OL3 = Straight PCB contact (.197" lg by .021" Ø)

\* 104 Position Available in Machined Aluminum Shells only

\* = Crimp (D\*MA, D\*MAM)

\* = Shell Sizes are E, A, B, C, D, F (F available in high density aluminum only)

\*\* = Legacy Tail Modifiers "D", "E" and "F" have been replaced by Tail Modifiers "L", "M" and "P" respectively

D Sub C



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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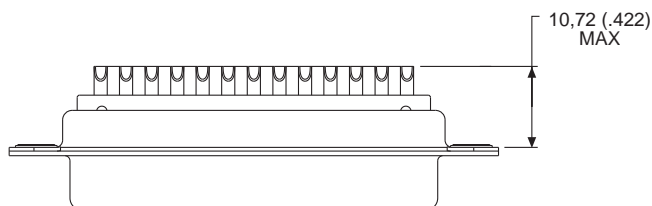
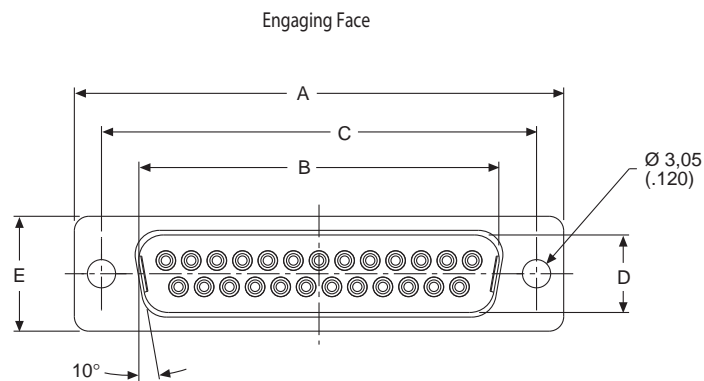
Solder Cup

Plug

- For contact cavity arrangements, see pages C-44.
- For panel cutouts, see page C-49.
- Accepts up to 18 AWG.

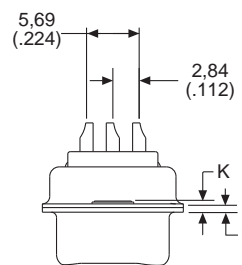
| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 9      | DEM9P        | DEMY9P           |
| DA         | 15     | DAM15P       | DAMY15P          |
| DB         | 25     | DBM25P       | DBMY25P          |
| DC         | 37     | DCM37P       | DCMY37P          |
| DD         | 50     | DDM50P       | DDMY50P          |

Note: For residual magnetism level of 200 gamma and shells and contacts with 50 microinches (1,27 m) gold plating, add NMBK52"

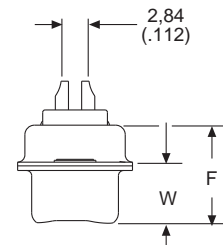


Size D

DD Configuration



Sizes E, A, B, C



Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | K               | K             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,317 (.0125) | ± 0,25 (.010) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (8,36)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |

# Cannon Solder Cup, Size 20 Military/Hi-Reliability

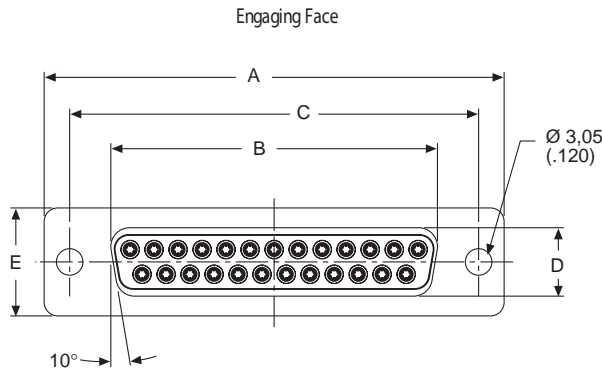
## Solder Cup

### Receptacle

- For contact cavity arrangements, see pages C-44.
- For panel cutouts, see page C-49.
- Accepts up to 18 AWG.

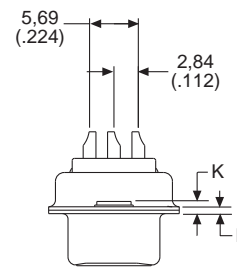
| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 9      | DEM9S        | DEMY9S           |
| DA         | 15     | DAM15S       | DAMY15S          |
| DB         | 25     | DBM25S       | DBMY25S          |
| DC         | 37     | DCM37S       | DCMY37S          |
| DD         | 50     | DDM50S       | DDMY50S          |

Note: For residual magnetism level of 200 Gamma and shells and contacts with 50 micro inches (1,27m) gold plating, add NMBK52. Example DEM9PNMBK52 and shells with 50 microinches gold for 50 microinch (1.27mm) gold contacts

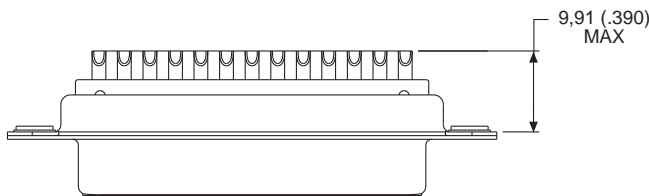
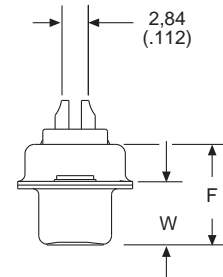


### Size D

#### DD Configuration



### Sizes E, A, B, C



### Dimensions

| Shell size | A<br>$\pm 0,38 (.015)$ | B<br>$\pm 0,13 (.005)$ | C<br>$\pm 0,13 (.005)$ | D<br>$\pm 0,13 (.005)$ | E<br>$\pm 0,38 (.015)$ | F<br>$\pm 0,25 (.010)$ | W<br>$\pm 0,368 (.0145)$ | K<br>$\pm 0,317 (.0125)$ | L<br>$\pm 0,25 (.010)$ |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|------------------------|
| DE         | 30,81 (1.213)          | 16,33 (.643)           | 24,99 (8,36)           | 7,90 (.311)            | 12,55 (.494)           | 10,90 (.429)           | 6,94 (.273)              | 1,206 (.0475)            | 0,76 (.030)            |
| DA         | 39,14 (1.541)          | 24,66 (.971)           | 33,32 (1.312)          | 7,90 (.311)            | 12,55 (.494)           | 10,90 (.429)           | 6,94 (.273)              | 1,206 (.0475)            | 0,76 (.030)            |
| DB         | 53,04 (2.088)          | 38,38 (1.511)          | 47,04 (1.852)          | 7,90 (.311)            | 12,55 (.494)           | 10,90 (.429)           | 6,94 (.273)              | 1,206 (.0475)            | 0,76 (.030)            |
| DC         | 69,32 (2.729)          | 54,84 (2.159)          | 63,50 (2.500)          | 7,90 (.311)            | 12,55 (.494)           | 10,90 (.429)           | 6,94 (.273)              | 1,206 (.0475)            | 0,76 (.030)            |
| DD         | 66,93 (2.635)          | 52,42 (2.064)          | 61,11 (2.406)          | 10,74 (.423)           | 15,37 (.605)           | 10,90 (.429)           | 6,94 (.273)              | 1,206 (.0475)            | 0,76 (.030)            |



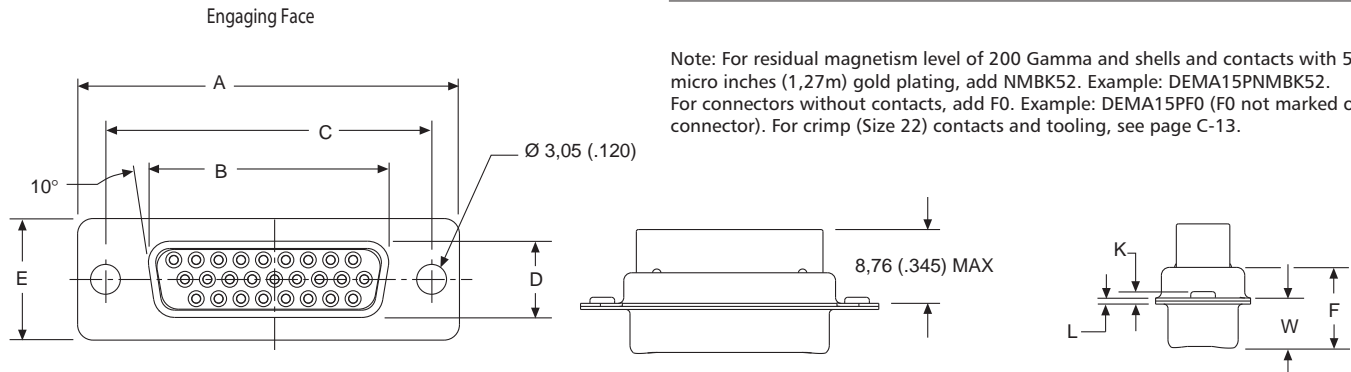
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

## D\*MA Standard Density Crimp Contact Cable Connector

### Plug

- For contact cavity arrangements, see pages C-44.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 9      | DEMA9P       | DEMAY9P          |
| DA         | 14     | DAMA15P      | DAMAY15P         |
| DB         | 25     | DBMA25P      | DBMAY25P         |
| DC         | 37     | DCMA37P      | DCMAY37P         |
| DD         | 50     | DDMA50P      | DDMAY50P         |



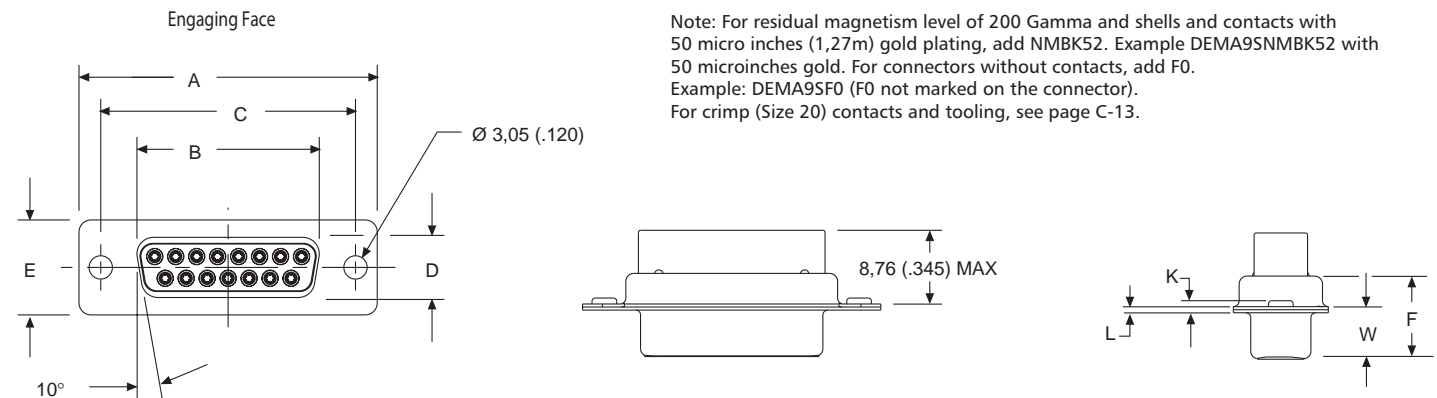
### Dimensions

| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,368 (.0145) | K<br>± 0,317 (.0125) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,92 (.666)       | 24,99 (8,36)       | 8,36 (.329)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 25,25 (.994)       | 33,32 (1.312)      | 8,36 (.329)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,96 (1.534)      | 47,04 (1.852)      | 8,36 (.329)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DC         | 69,32 (2.729)      | 55,42 (2.182)      | 63,50 (2.500)      | 8,36 (.329)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DD         | 66,93 (2.635)      | 52,81 (2.079)      | 61,11 (2.406)      | 11,07 (.436)       | 15,37 (.605)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |

### Receptacle

- For contact cavity arrangements, see pages C-44.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 9      | DEMA9S       | DEMAY9S          |
| DA         | 15     | DAMA15S      | DAMAY15S         |
| DB         | 25     | DBMA25S      | DBMAY25S         |
| DC         | 37     | DCMA37S      | DCMAY37S         |
| DD         | 50     | DDMA50S      | DDMAY50S         |



### Dimensions

| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,368 (.0145) | K<br>± 0,317 (.0125) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,33 (.643)       | 24,99 (.984)       | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 24,66 (.971)       | 33,32 (1.312)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,38 (1.511)      | 47,04 (1.852)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DC         | 69,32 (2.729)      | 54,84 (2.159)      | 63,50 (2.500)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DD         | 66,93 (2.635)      | 52,42 (2.064)      | 61,11 (2.406)      | 10,74 (.423)       | 15,37 (.605)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |

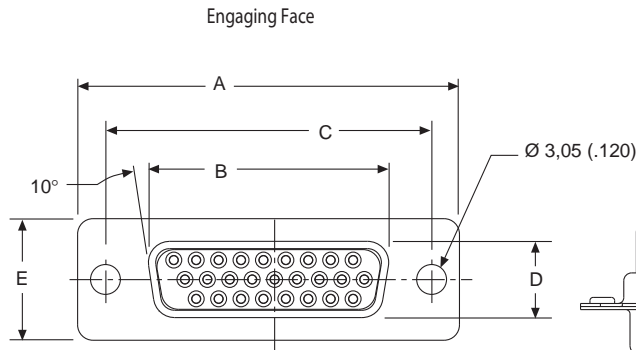
# Cannon Crimp, Size 22 Military/High Reliability

## D\*MA High Density Crimp Contact Cable Connector

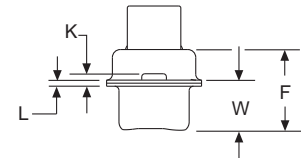
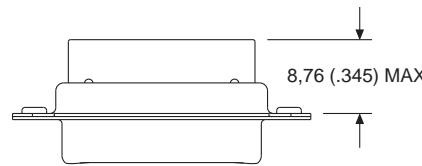
### Plug

- For contact cavity arrangements, see pages C-44.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 15     | DEMA15P      | DEMAY15P         |
| DA         | 26     | DAMA26P      | DAMAY26P         |
| DB         | 44     | DBMA44P      | DBMAY44P         |
| DC         | 62     | DCMA62P      | DCMAY62P         |
| DD         | 78     | DDMA78P      | DDMAY78P         |
| DF         | 104    | DFMA104PF216 | DFMA4104PF216    |



Note: For Residual Magnetism Level of 200 gamma, add B. Example DEMA15PNMB  
For shells with 50 microinches gold, add K52. Example: DEMA15PNMBK52.  
For connectors without contacts, add F0. Example: DEMA15PF0 (F0 not marked on connector)  
For crimp (Size 22) contacts and tooling, see page C-7.



### Dimensions

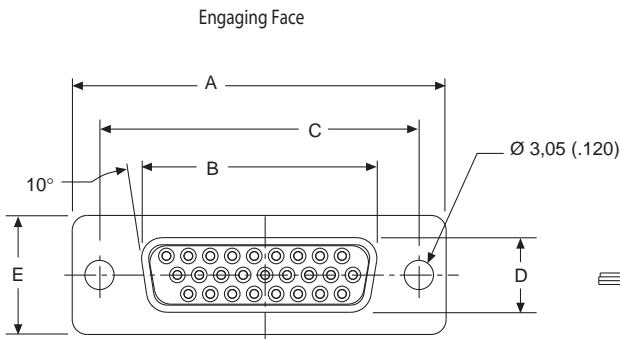
| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | K               | K             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,317 (.0125) | ± 0,25 (.010) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (.984)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |

DF (see Space Catalog)

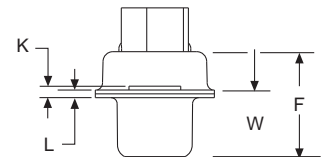
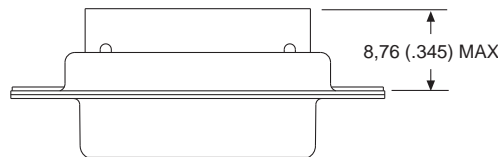
### Receptacle

- For contact cavity arrangements, see pages C-44.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 15     | DEMA15S      | DEMAY15S         |
| DA         | 26     | DAMA26S      | DAMAY26S         |
| DB         | 44     | DBMA44S      | DBMAY44S         |
| DC         | 62     | DCMA62S      | DCMAY62S         |
| DD         | 78     | DDMA78S      | DDMAY78S         |
| DF         | 104    | DFMA104SF216 | DFMA4104SF216    |



Note: For residual magnetism level of 200 Gamma and shells and contacts with 50 micro inches (1,27m) gold plating, add NMBK52. Example DEMA15SNMBK52  
contacts and shells with 50 microinches gold. For connectors without contacts, add F0. Example: DEMA15SF0 (F0 not marked on the connector). For crimp (Size 22) contacts and tooling, see page C-13.



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W               | K               | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,317 (.0125) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,33 (.643)  | 24,99 (8,36)  | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 1,206 (.0475)   | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 24,66 (.971)  | 33,32 (1.312) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 1,206 (.0475)   | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,38 (1.511) | 47,04 (1.852) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 1,206 (.0475)   | 0,76 (.030)   |
| DC         | 69,32 (2.729) | 54,84 (2.159) | 63,50 (2.500) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 1,206 (.0475)   | 0,76 (.030)   |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423)  | 15,37 (.605)  | 10,90 (.429)  | 6,94 (.273)     | 1,206 (.0475)   | 0,76 (.030)   |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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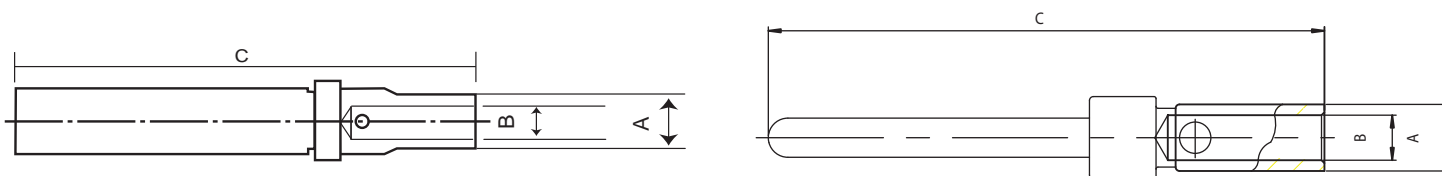
# Cannon Crimp Contacts D\*MA/D\*A Combo Military/High Reliability

## MATERIALS AND FINISHES

| Contact Size | Wire Size Accom. | Standard Finish |              | Military Finish |              | NMB          |              |
|--------------|------------------|-----------------|--------------|-----------------|--------------|--------------|--------------|
|              |                  | Pin             | Socket       | Pin             | Socket       | Pin          | Socket       |
| 20           | 20, 22, 24       | 330-5291-000    | 031-1007-073 | 980-0009-472    | 980-0009-471 | 330-5291-037 | 031-1007-052 |
| 20-18        | 1 #18 & 2 #22    | 330-5291-001    | 031-1007-001 | 330-5291-055    | 031-1007-054 | 330-5291-108 | 031-1007-091 |
| 20-26        | 26, 28, 30       | 330-5291-004    | 031-1007-004 | 330-5291-050    | 031-1007-048 | 330-5291-109 | 031-1007-053 |
| 22D          | 22, 24, 26, 28   | 980-0008-878    | 980-0008-874 | 980-0008-878    | 980-0008-874 | 030-2042-002 | 031-1147-002 |

## MIL-C-39029 Cross-Reference

| Contact Size | Wire Size Accom.  | M39029   | M24308 | Cannon Part No. |
|--------------|-------------------|----------|--------|-----------------|
| 20 Pin       | 20 / 22 / 24      | / 64-369 | / 11-1 | 980-0009-472    |
| 20 Socket    | 20 / 22 / 24      | / 63-368 | / 10-1 | 980-0009-471    |
| 22D Pin      | 24 / 26 / 28      | / 58-360 | / 13-1 | 980-0008-878    |
| 22D Socket   | 22 / 24 / 26 / 28 | / 57-354 | / 12-1 | 980-0008-874    |



| AWG size |        | A ± 0,05    | B ± 0,05    | C max.       |
|----------|--------|-------------|-------------|--------------|
| 20 – 24  | Pin    | 1,7 (0.067) | 1,0 (0.039) | 14,2 (0.559) |
|          | Socket | 1,7 (0.067) | 1,0 (0.039) | 13,7 (0.539) |
| 26 – 30  | Pin    | 1,7 (0.067) | 0,6 (0.039) | 14,2 (0.559) |
|          | Socket | 1,7 (0.067) | 0,6 (0.039) | 13,7 (0.539) |

## Insertion/Extraction Tools

### CIET-20HD

| Contact Size | AWG            | Plastic Insertion/Extraction |           | Plastic Extraction |           |
|--------------|----------------|------------------------------|-----------|--------------------|-----------|
|              |                | Pin                          | Socket    | Pin                | Socket    |
| 20           | 20, 22, 24     | 980-2000-426                 | CIET-20HD | 323-7010-000       | CET-20-11 |
| 2026         | 26, 28, 30     | 980-2000-426                 | CIET-20HD | 323-7010-000       | CET-20-11 |
| 2018         | 1 #18          | None                         | None      | 274-5016-002       | CET-20-15 |
|              | 2 #22          | None                         | None      | 274-5016-002       | CET-20-15 |
| 22D          | 22, 24, 26, 28 | 274-7048-000                 | CIET-22D  | None               | None      |
| High Power   | 12, 16         | 274-7003-000                 | CIET-12   | None               | None      |
| High Volt    | #20            | 274-7003-000                 | CIET-12   | None               | None      |

## Hand Crimp Tools

| Contact Size | Wire Size AWG  | Crimp Tool   |             | Locator      |             |
|--------------|----------------|--------------|-------------|--------------|-------------|
|              |                | Part Number  | Description | Part Number  | Description |
| 20           | 20, 22, 24     | 995-0001-584 | M22520/2-01 | 995-0001-604 | M22520/2-08 |
|              |                | 995-0001-585 | M22520/1-01 | 995-0001-244 | TH25        |
| 2026         | 26, 28, 30     | 980-2000-426 | M22520/2-01 | 995-0001-325 | L3198-20HD  |
| 2018         | 1 #18, 2 #22   | 995-0001-584 | M22520/2-01 | 980-0005-722 | K250        |
| 22D          | 22, 24, 26, 28 | 995-0001-584 | M22520/2-01 | 995-0001-739 | M22520/2-06 |

Assembly instructions see page C-44.  
For size 8 contacts, please refer to Combo D catalog or website.

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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C  
D Sub  
qns

# Cannon Straight PCB, Size 20 Military/High Reliability

## Standard Density Straight PC Tail

### Plug

- For contact cavity arrangements, see pages C-44.
- For P.C. hole pattern, see pages C-45.
- For panel cutouts, see page C-49.

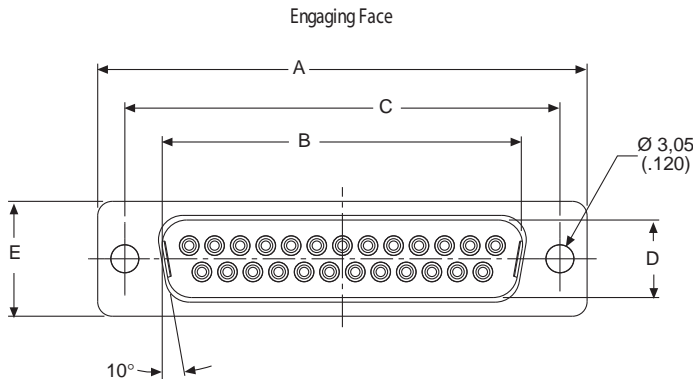
| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 9      | DEM9PM*      | DEMY9PM*         |
| DA         | 15     | DAM15PM*     | DAMY15PM*        |
| DB         | 25     | DBM25PM*     | DBMY25PM*        |
| DC         | 37     | DCM37PM*     | DCMY37PM*        |
| DD         | 50     | DDM50PM*     | DDMY50PM*        |

Note: For Residual Magnetism Level of 200 gamma, add NMBK52. Example DEMA15PMNMBK52 contacts and shells with 50 microinches gold. For alternate PC tail modifiers (see tabulation), replace 0L3 with M or Z. Example: DEM9PZNM

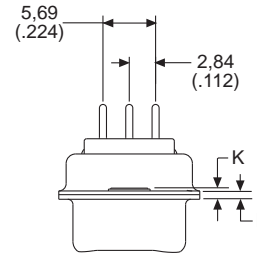
| PC Tail Modifiers | X                            | ØY                           |
|-------------------|------------------------------|------------------------------|
| M                 | 4.01 ± 0,69<br>(.158 ± .027) | 0,76 ± 0,08<br>(.030 ± .003) |
| Q                 | 7,62 ± 0,5<br>(.300 ± .020)  | 0,76 ± 0,08<br>(.030 ± .003) |
| 0L3               | 4,82 ± 1,5<br>(.190 ± .020)  | 0,60 ± 0,08<br>(.023 ± .003) |

0L3 for HE501 connectors and ESA equivalents

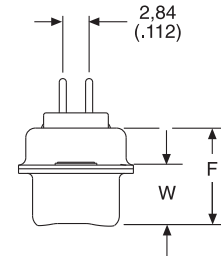
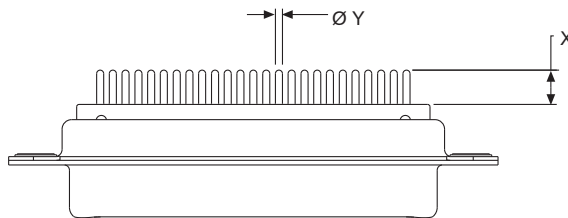
### Size D



### DD Configuration



### Sizes E, A, B, C



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | K               | K             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,317 (.0125) | ± 0,25 (.010) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (8,36)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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## Standard Density Straight PC Tail

### Receptacle

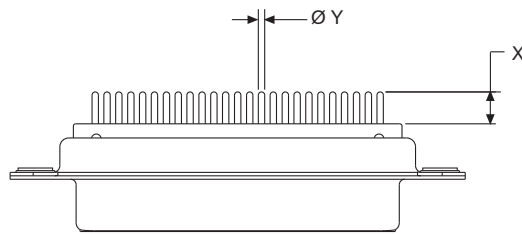
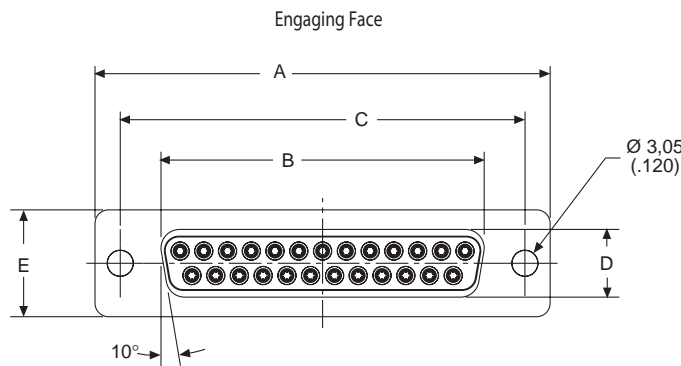
- For contact cavity arrangements, see pages C-44.
- For P.C. hole pattern, see pages C-45.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 9      | DEM9SM       | DEMYSM           |
| DA         | 15     | DAM15SM      | DAMY15SM         |
| DB         | 25     | DBM25SM      | DBMY25SM         |
| DC         | 37     | DCM37SM      | DCMY37SM         |
| DD         | 50     | DDM50SM      | DDMY50SM         |

| PC Tail Modifiers | X                            | Y                            |
|-------------------|------------------------------|------------------------------|
| M                 | 4,01 ± 0,69<br>(.158 ± .027) | 0,76 ± 0,08<br>(.030 ± .003) |
| Q                 | 7,62 ± 0,5<br>(.300 ± .020)  | 0,76 ± 0,08<br>(.030 ± .003) |
| OL3               | 4,82 ± 1,5<br>(.190 ± .020)  | 0,60 ± 0,08<br>(.023 ± .003) |

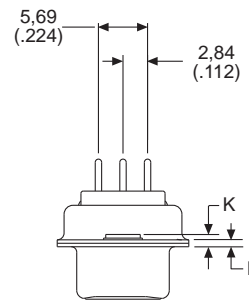
Note: For residual magnetism level of 200 Gamma and shells and contacts with 50 micro inches (1,27m) gold plating, add NMBK52. Example DEMA15SMNMBK52 and shells with 50 microinches gold. For alternate PC tail modifiers (see tabulation), replace with OL3 or Z. Example: DEM9SZNM

OL3 for HE501 connectors and ESA equivalents

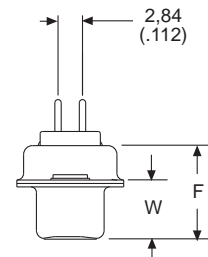


### Size D

#### DD Configuration



#### Sizes E, A, B, C



### Dimensions

| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,368 (.0145) | K<br>± 0,317 (.0125) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,33 (.643)       | 24,99 (8,36)       | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 24,66 (.971)       | 33,32 (1.312)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,38 (1.511)      | 47,04 (1.852)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DC         | 69,32 (2.729)      | 54,84 (2.159)      | 63,50 (2.500)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DD         | 66,93 (2.635)      | 52,42 (2.064)      | 61,11 (2.406)      | 10,74 (.423)       | 15,37 (.605)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon Straight PCB, High Density Plug Military/High Reliability D-Subminiature

## High Density Straight PC Tail

### Plug

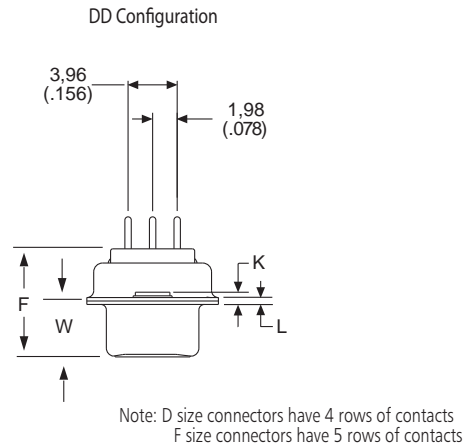
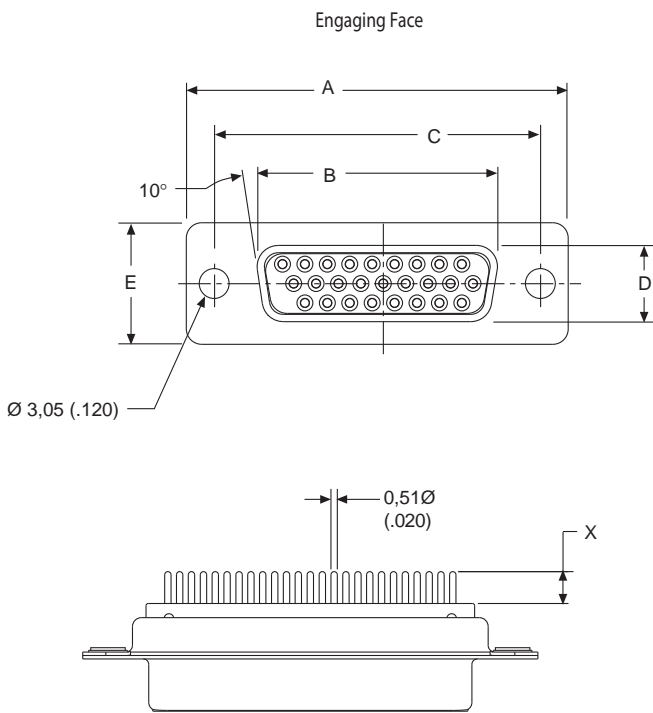
- For contact cavity arrangements, see pages C-44.
- For P.C. hole pattern, see pages C-47.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 15     | DEM15PM*     | DEMY15PM*        |
| DA         | 26     | DAM26PM*     | DAMY26PM*        |
| DB         | 44     | DBM44PM*     | DBMY44PM*        |
| DC         | 62     | DCM62PM*     | DCMY62PM*        |
| DD         | 78     | DDM78PM*     | DDMY78PM*        |

| PC Tail Modifiers | X                            |
|-------------------|------------------------------|
| M                 | 4,01 ± 0,69<br>(.158 ± .027) |
| Q                 | 7,62 ± 0,5<br>(.300 ± .020)  |
| OL3               | 4,82 ± 1,5<br>(.190 ± .020)  |

Note: For Residual Magnetism Level of 200 gamma, add NMBK52. Example DEMA15PMNMBK52 and shells with 50 microinches gold. For alternate PC tail modifiers (see tabulation), replace with OL3 or Z. Example: DEM15PZNM

OL3 for HE501 connectors and ESA equivalents



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | K               | K             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,317 (.0125) | ± 0,25 (.010) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (8,36)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 1,206 (.0475)   | -             | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | -               | 6,84 (.269)   | -               | 1,52 (.060)   | 0,99 (.039)   |
| DF         | 69,34 (2.73)  | 55,0 (2.16)   | 63,50 (2.50)  | 15,49 (0.61)  | 20,07 (0.79)  | 16,45 (.648)  | 6,94 (.273)     | 1,206 (.0475) | 0,76 (.030)     | -             | -             |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

www.ittcannon.com



## High Density Straight PC Tail

### Receptacle

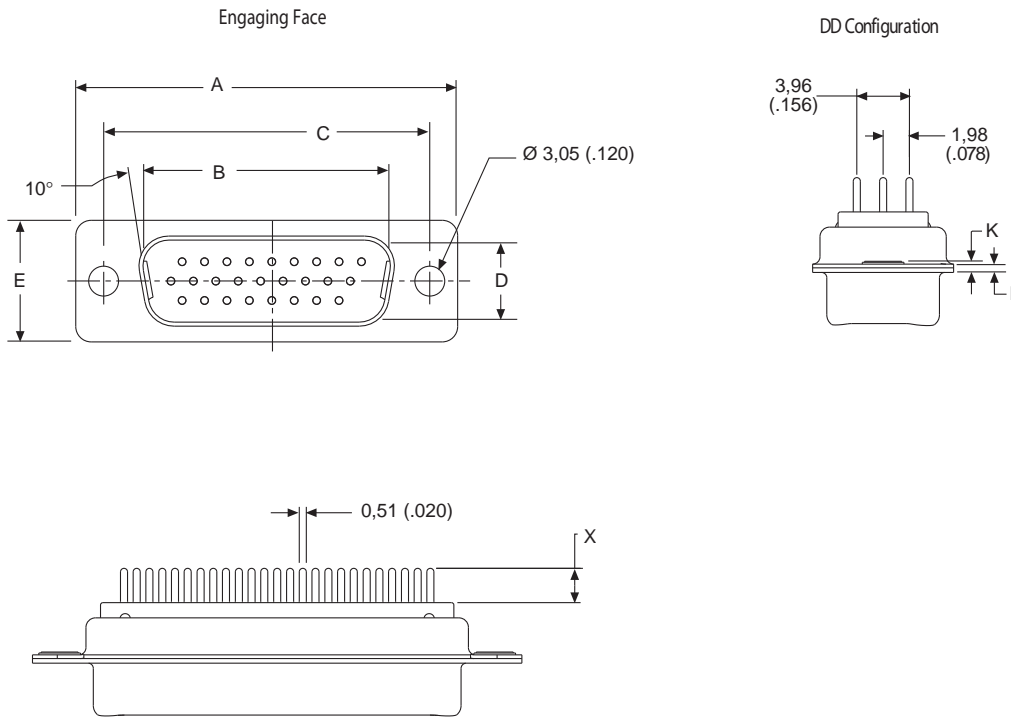
- For contact cavity arrangements, see pages C-44.
- For P.C. hole pattern, see pages C-47.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole | Dual Float Mount |
|------------|--------|--------------|------------------|
| DE         | 15     | DEMA15SM     | DEMAY15SM        |
| DA         | 26     | DAMA26SM     | DAMAY26SM        |
| DB         | 44     | DBMA26SM     | DBMAY44SM        |
| DC         | 62     | DCMA62SM     | DCMAY62SM        |
| DD         | 78     | DDMA78SM     | DDMAY78SM        |
| DF*        | 104    | DFMA104SM    | DFMAY104SM       |

| PC Tail Modifiers | X                            |
|-------------------|------------------------------|
| M                 | 4.01 ± 0,69<br>(.158 ± .027) |
| Q                 | 7,62 ± 0,5<br>(.300 ± .020)  |
| OL3               | 4,82 ± 1,5<br>(.190 ± .020)  |

Note: For residual magnetism level of 200 Gamma and shells and contacts with 50 micro inches (1,27m) gold plating, add NMBK52. Example DEMA15SMNMBK52 and shells with 50 microinches gold. For alternate PC tail modifiers (see tabulation), replace OL3 with M or Z. Example: DEM9SZNM

OL3 for HE501 connectors and ESA equivalents



### Dimensions

| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,368 (.0145) | K<br>± 0,317 (.0125) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,33 (.643)       | 24,99 (8,36)       | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 24,66 (.971)       | 33,32 (1.312)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,38 (1.511)      | 47,04 (1.852)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DC         | 69,32 (2.729)      | 54,84 (2.159)      | 63,50 (2.500)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DD         | 66,93 (2.635)      | 52,42 (2.064)      | 61,11 (2.406)      | 10,74 (.423)       | 15,37 (.605)       | 10,90 (.429)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |
| DF         | 69.34 (2.73)       | 55,0 (2.16)        | 63,50 (2.50)       | 15,49 (0.61)       | 20,07 (0.79)       | 16,45 (.648)       | 6,94 (.273)          | 1,206 (.0475)        | 0,76 (.030)        |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon 90° PCB, Size 20 Military/High Reliability

## 90° Standard Density PC Tail

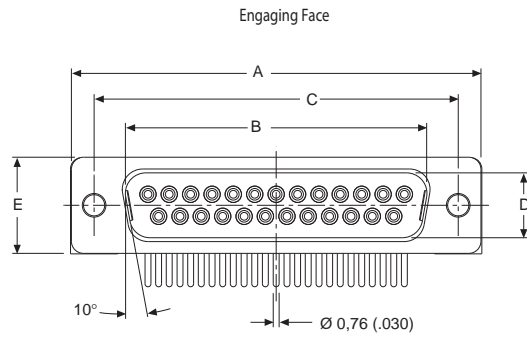
### Plug

- For contact cavity arrangements, see pages C-44.
- For P.C. hole pattern, see pages C-46.
- For panel cutouts, see page C-49.

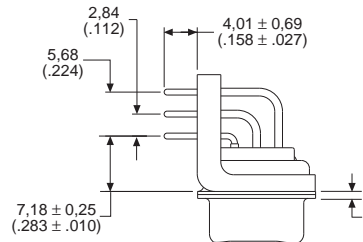
| Shell Size | Layout | Through Hole with bracket | Through Hole without bracket |
|------------|--------|---------------------------|------------------------------|
| DE         | 9      | DEMM9PL                   | DEMM9P                       |
| DA         | 15     | DAMM15PL                  | DEMM15P                      |
| DB         | 25     | DBMM25PL                  | DEMM25P                      |
| DC         | 37     | DCMM37PL                  | DEMM37P                      |
| DD         | 50     | DDMM50PL                  | DEMM50P                      |

Note: For Residual Magnetism Level of 200 gamma, add NMBK52.  
Example DEMA9PLNMBK52 contacts and shells have 50 microinches gold.  
Shown with bracket, for version without bracket, use termination modifier "P".

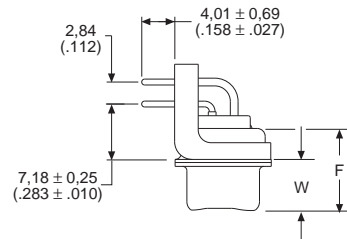
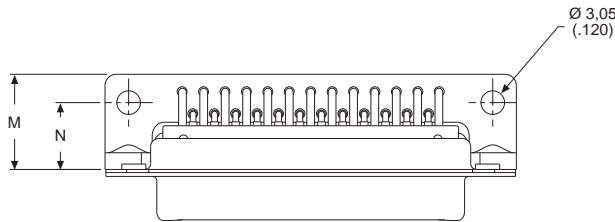
### Size D



### DD Configuration



### Size E, A, B, C



| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | K               | K             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,317 (.0125) | ± 0,25 (.010) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (8,36)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 0,76 (.030)     | 12,30 (.484)  | 8,64 (.340)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 0,76 (.030)     | 12,30 (.484)  | 8,64 (.340)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | 0,76 (.030)     | 12,30 (.484)  | 8,64 (.340)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | 0,76 (.030)     | 12,30 (.484)  | 8,64 (.340)   |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | -               | 6,84 (.269)   | 0,76 (.030)     | 15,09 (.594)  | 10,04 (.395)  |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

## 90° High Density Plug PC Tail with Plastic Bracket

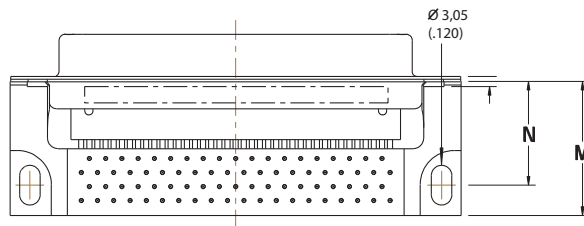
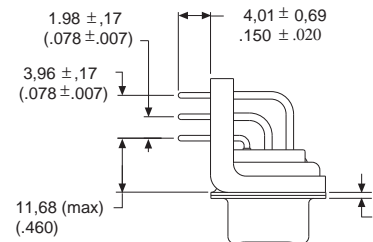
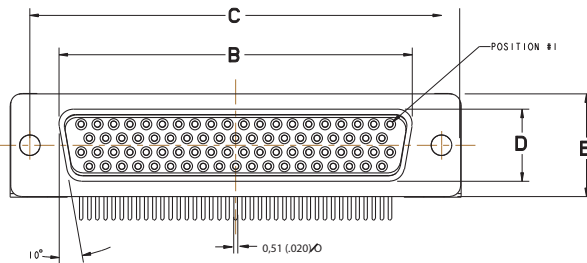
### Plug

- For contact cavity arrangements, see pages C-44.
- For P.C. hole pattern, see pages C-48.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole with bracket |
|------------|--------|---------------------------|
| DE         | 15     | DEMA15PL                  |
| DA         | 26     | DAMA26PL                  |
| DB         | 44     | DBMA44PL                  |
| DC         | 62     | DCMA62PL                  |
| DD         | 78     | DDMA78PL                  |
| DF         | 104    | DFMA104PLF216             |

Note: For Residual Magnetism Level of 200 gamma, add NMBK52. Example DEMA15PLNMBK52 contacts and shells have 50 microinches gold. Shown with bracket, for version without bracket, use termination modifier "P". "F" size shells use machined aluminum shells only.

### Size D



| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | K               | M             | N             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,317 (.0125) | ± 0,25 (.010) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (8,36)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 0,76 (.030)     | 18,901 (.740) | 13,82 (.544)  |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | -             | 0,76 (.030)     | 18,901 (.740) | 13,82 (.544)  |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | 0,76 (.030)     | 18,901 (.740) | 13,82 (.544)  |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | -               | 6,84 (.269)   | 0,76 (.030)     | 18,901 (.740) | 13,82 (.544)  |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | -               | 6,84 (.269)   | 0,76 (.030)     | 20,07 (.790)  | 15,39 (.606)  |
| DF         | 69,32 (2.729) | 56,69 (2.232) | 63,50 (2.500) | 13,23 (.521)  | 16,97 (.668)  | 10,90 (.429)  | -               | 6,94 (.273)   | 0,76 (.030)     | 22,14 (.872)  | 15,60 (.614)  |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon 90° PCB, High Density Receptacle Military/High Reliability D-Subminiatures

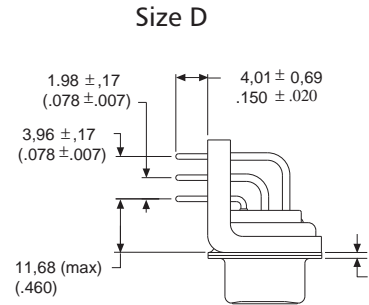
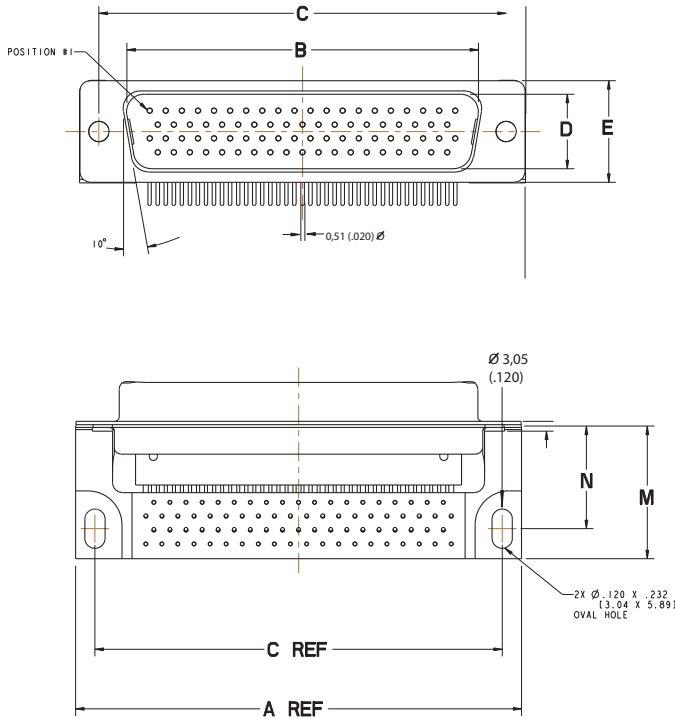
## 90° High Density PC Tail with Plastic Bracket

### Receptacle

- For contact cavity arrangements, see pages C-44.
- For P.C. hole pattern, see pages C-48.
- For panel cutouts, see page C-49.

| Shell Size | Layout | Through Hole  |
|------------|--------|---------------|
| DE         | 15     | DEMA15SL      |
| DA         | 26     | DAMA26SL      |
| DB         | 44     | DBMA44SL      |
| DC         | 62     | DCMMA62SL     |
| DD         | 76     | DDMMA78SL     |
| DF         | 104    | DFMA104SLF216 |

Note: For Residual Magnetism Level of 200 gamma, add NMBK52.  
Example DEMA15SLNMBK52 contacts and shells have 50 microinches gold.  
Shown with bracket. For version without bracket use termination modifier "P".  
"F" size shells use machined aluminum shells only.



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W               | L             | M             | N             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,25 (.010) | ± 0,25 (.010) | ± 0,13 (.005) |
| DE         | 30,81 (1.213) | 16,33 (.643)  | 24,99 (8,36)  | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 0,76 (.030)   | 18,90 (.740)  | 13,82 (.544)  |
| DA         | 39,14 (1.541) | 24,66 (.971)  | 33,32 (1.312) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 0,76 (.030)   | 18,90 (.740)  | 13,82 (.544)  |
| DB         | 53,04 (2.088) | 38,38 (1.511) | 47,04 (1.852) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 0,76 (.030)   | 18,90 (.740)  | 13,82 (.544)  |
| DC         | 69,32 (2.729) | 54,84 (2.159) | 63,50 (2.500) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)     | 0,76 (.030)   | 18,90 (.740)  | 13,82 (.544)  |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423)  | 15,37 (.605)  | 10,90 (.429)  | 6,94 (.273)     | 0,76 (.030)   | 20,07 (.790)  | 15,39 (.606)  |
| DF         | 69,32 (2.729) | 56,69 (2.232) | 63,50 (2.500) | 13,23 (.521)  | 16,97 (.668)  | 10,90 (.429)  | 6,94 (.273)     | 0,76 (.030)   | 22,14 (.872)  | 15,60 (.614)  |



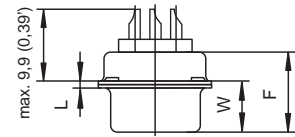
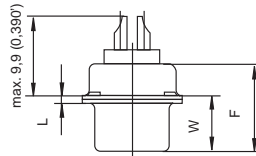
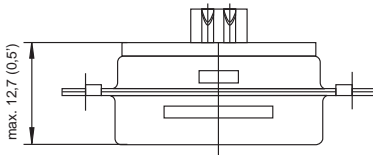
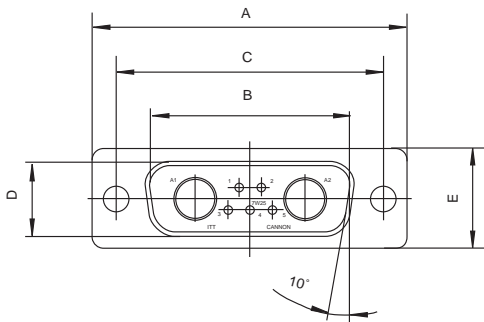
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

Plug, Solder cup, sizes DE-DC, with empty size 8 cavities

Plug



- For contact cavity arrangements, see page C-43.
- Size 8 contacts, please refer to Combo D catalog.



Empty size 8 contact cavities with solder pot termination

| Shell size | Layout | INDUSTRIAL P/N with through hole | MILITARY/HI-REL P/N with through hole | NON-MAGNETIC/LOW OUTGASSING** P/N with through hole |
|------------|--------|----------------------------------|---------------------------------------|---|
| DE         | 2W2    | DEM2W2PK87                       | DEMM2W2P                              | DEM2W2PNMBK52                                       |
| DE         | 2WK2   | DEM2WK2PK87                      | DEMM2WK2P                             | DEM2WK2PNMBK52                                      |
| DE         | 5W1    | DEM5W1PK87                       | DEMM5W1P                              | DEM5W1PNMBK52                                       |
| DA         | 7W2    | DAM7W2PK87                       | DAMM7W2P                              | DAM7W2PNMBK52                                       |
| DA         | 11W1   | DAM11W1PK87                      | DAMM11W1P                             | DAM11W1PNMBK52                                      |
| DA         | 3W3    | DAM3W3PK87                       | DAMM3W3P                              | DAM3W3PNMBK52                                       |
| DA         | 3WK3   | DAM3WK3PK87                      | DAMM3WK3P                             | DAM3WK3PNMBK52                                      |
| DB         | 5W5    | DBM5W5PK87                       | DBMM5W5P                              | DBM5W5PNMBK52                                       |
| DB         | 9W4    | DBM9W4PK87                       | DBMM9W4P                              | DBM9W4PNMBK52                                       |
| DB         | 13W3   | DBM13W3PK87                      | DBMM13W3P                             | DBM13W3PNMBK52                                      |
| DB         | 17W2   | DBM17W2PK87                      | DBMM17W2P                             | DBM17W2PNMBK52                                      |
| DB         | 21W1   | DBM21W1PK87                      | DBMM21W1P                             | DBM21W1PNMBK52                                      |
| DC         | 8W8    | DCM8W8PK87                       | DCMM8W8P                              | DCM8W8PNMBK52                                       |
| DC         | 13W6   | DCM13W6PK87                      | DCMM13W6P                             | DCM13W6PNMBK52                                      |
| DC         | 17W5   | DCM17W5PK87                      | DCMM17W5P                             | DCM17W5PNMBK52                                      |
| DC         | 21WA4  | DCM21WA4PK87                     | DCMM21WA4P                            | DCM21WA4PNMBK52                                     |
| DC         | 25W3   | DCM25W3PK87                      | DCMM25W3P                             | DCM25W3PNMBK52                                      |
| DC         | 27W2   | DCM27W2PK87                      | DCMM27W2P                             | DCM27W2PNMBK52                                      |
| DD         | 24W1   | DDM24W1SA197                     | DDMM24W1S                             | DDM24W1SNMBK52                                      |
| DD         | 36W4   | DDM36W4SA197                     | DDMM36W4S                             | DDM36W4SNMBK52                                      |
| DD         | 43W2   | DDM43W2SA197                     | DDMM43W2S                             | DDM43W2SNMBK52                                      |
| DD         | 47W1   | DDM47W1SA197                     | DDMM47W1S                             | DDM47W1SNMBK52                                      |

\*For clinch nut 4-40 UNC thread add "E", for float mount add "Y" after D\*M designation (Ex. DCMME27W2P, DGM27W2PK87) 2W2/2WK2, 3W3/3WK3 (keyed) 5W5 and 8W8 without signal contacts.

\*\* Hardware Modifier not allowed on Non-Magnetic/Low Outgassing Versions; consult factory for more information

Dimensions

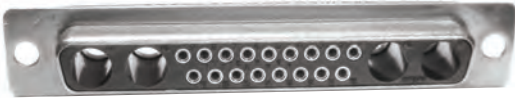
| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | K               | K             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,317 (.0125) | ± 0,25 (.010) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (.984)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | —             | 1,206 (.0475)   | —             | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | —             | 1,206 (.0475)   | —             | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | —               | 6,84 (.269)   | —               | 1,52 (.060)   | 0,99 (.039)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | —               | 6,84 (.269)   | —               | 1,52 (.060)   | 0,99 (.039)   |
| DF         | 66,93 (2.635) | 51,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | —               | 6,84 (.269)   | —               | 1,52 (.060)   | 0,99 (.039)   |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

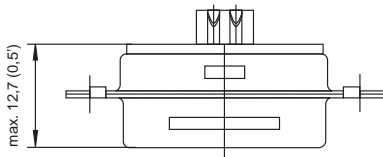
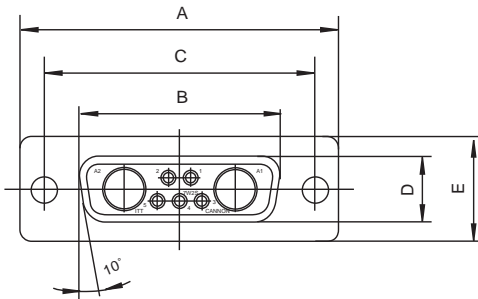
# Cannon Combo-D, Solder Cup Military/High Reliability

## Receptacle, Solder cup, sizes DE-DC, with empty size 8 cavities

### Receptacle



- For contact cavity arrangements, see page C-43.
- Size 8 contacts, please refer to Combo D catalog.

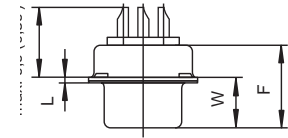
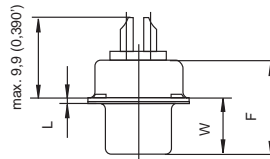


### Empty size 8 contact cavities with solder pot termination

| Shell size | Layout | INDUSTRIAL P/N with through hole | MILITARY/HI-REL P/N with through hole | NON-MAGNETIC/LOW OUTGASSING** P/N with through hole |
|------------|--------|----------------------------------|---------------------------------------|---|
| DE         | 2W2    | DEM2W2SA197                      | DEMM2W2S                              | DEM2W2SNMBK52                                       |
| DE         | 2WK2   | DEM2WK2SA197                     | DEMM2WK2S                             | DEM2WK2SNMBK52                                      |
| DE         | 5W1    | DEM5W1SA197                      | DEMM5W1S                              | DEM5W1SNMBK52                                       |
| DA         | 7W2    | DAM7W2SA197                      | DAMM7W2S                              | DAM7W2SNMBK52                                       |
| DA         | 11W1   | DAM11W1SA197                     | DAMM11W1S                             | DAM11W1SNMBK52                                      |
| DA         | 3W3    | DAM3W3SA197                      | DAMM3W3S                              | DAM3W3SNMBK52                                       |
| DA         | 3WK3   | DAM3WK3SA197                     | DAMM3WK3S                             | DAM3WK3SNMBK52                                      |
| DB         | 5W5    | DBM5W5SA197                      | DBMM5W5S                              | DBM5W5SNMBK52                                       |
| DB         | 9W4    | DBM9W4SA197                      | DBMM9W4S                              | DBM9W4SNMBK52                                       |
| DB         | 13W3   | DBM13W3SA197                     | DBMM13W3S                             | DBM13W3SNMBK52                                      |
| DB         | 17W2   | DBM17W2SA197                     | DBMM17W2S                             | DBM17W2SNMBK52                                      |
| DB         | 21W1   | DBM21W1SA197                     | DBMM21W1S                             | DBM21W1SNMBK52                                      |
| DC         | 8W8    | DCM8W8SA197                      | DCMM8W8S                              | DCM8W8SNMBK52                                       |
| DC         | 13W6   | DCM13W6SA197                     | DCMM13W6S                             | DCM13W6SNMBK52                                      |
| DC         | 17W5   | DCM17W5SA197                     | DCMM17W5S                             | DCM17W5SNMBK52                                      |
| DC         | 21WA4  | DCM21WA4SA197                    | DCMM21WA4S                            | DCM21WA4SNMBK52                                     |
| DC         | 25W3   | DCM25W3SA197                     | DCMM25W3S                             | DCM25W3SNMBK52                                      |
| DC         | 27W2   | DCM27W2SA197                     | DCMM27W2S                             | DCM27W2SNMBK52                                      |
| DD         | 24W1   | DDM24W1SA197                     | DDMM24W1S                             | DDM24W1SNMBK52                                      |
| DD         | 36W4   | DDM36W4SA197                     | DDMM36W4S                             | DDM36W4SNMBK52                                      |
| DD         | 43W2   | DDM43W2SA197                     | DDMM43W2S                             | DDM43W2SNMBK52                                      |
| DD         | 47W1   | DDM47W1SA197                     | DDMM47W1S                             | DDM47W1SNMBK52                                      |

\*For clinch nut 4-40 UNC thread add "E", for float mount add "V" after D\*M designation (Ex. DCMME27W2P, DGM27W2PK87) 2W2/2WK2, 3W3/3WK3 (keyed) 5W5 and 8W8 without signal contacts.

\*\* Hardware Modifier not allowed on Non-Magnetic/Low Outgassing Versions; consult factory for more information



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W             | K               | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,38 (.015) | ± 0,317 (.0125) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,33 (.643)  | 24,99 (.984)  | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 24,65 (.971)  | 33,32 (1.312) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,38 (1.511) | 47,04 (1.852) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DC         | 69,32 (2.729) | 54,84 (2.159) | 63,50 (2.500) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423)  | 15,37 (.605)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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Coaxial Straight PCB Plug, sizes DE-DD

Plug



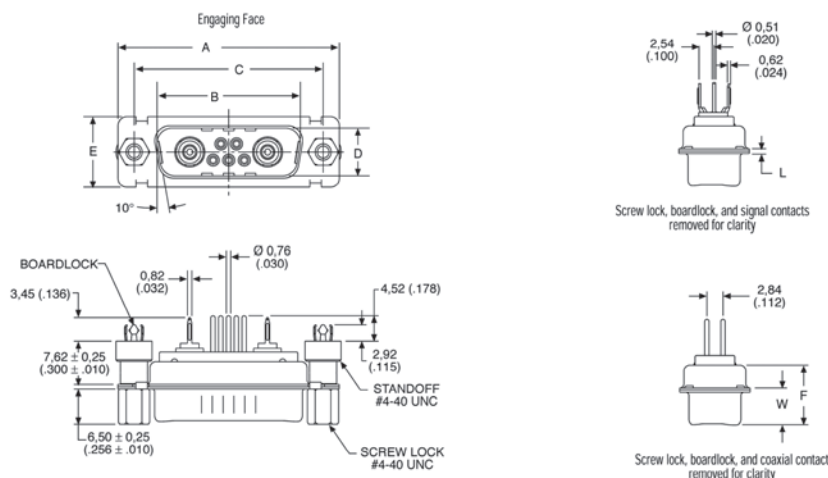
- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

75 Ohm\* coax inserted with straight contacts  
and standoff with UNC 4-40 thread

| Shell size | Layout | 75 OHM INDUSTRIAL     |                    | 50 OHM MILITARY/HI-REL |                        | NON-MAGNETIC/LOW OUTGASSING*** |
|------------|--------|-----------------------|--------------------|------------------------|------------------------|--------------------------------|
|            |        | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock  | P/N with UNC Boardlock | P/N with Gold Plating          |
| DE         | 2W2    | DEM2C2P-NK87          | DEM2C2P-NK87       | DEMMV2X2P-N            | DEMMZ2X2P-N            | DEM2X2P-NNMBK52                |
| DE         | 2WK2   | DEM2CK2P-NK87         | DEM2CK2P-NK87      | DEMMV2XK2P-N           | DEMMZ2XK2P-N           | DEM2XK2P-NNMBK52               |
| DE         | 5W1    | DEM5C1P-NK87          | DEM5C1P-NK87       | DEMMV5X1P-N            | DEMMZ5X1P-N            | DEM25X1P-NNMBK52               |
| DA         | 7W2    | DAM7C2P-NK87          | DAM7C2P-NK87       | DAMMV7X2P-N            | DAMMZ7X2P-N            | DAM27X2P-NNMBK52               |
| DA         | 7W2    | DAMV7C2P-NAK87        | DAMZ7C2P-NAK87     | DAMMV7X2P-N            | DAMMZ7X2P-N            | DAM27X2P-NNMBK52               |
| DA         | 11W1   | DAMV11C1P-NK87        | DAMZ11C1P-NK87     | DAMMV11X1P-N           | DAMMZ11X1P-N           | DAM211X1P-NNMBK52              |
| DA         | 3W3    | DAMV3C3P-NK87         | DAMZ3C3P-NK87      | DAMMV3X3P-N            | DAMMZ3X3P-N            | DAM23X3P-NNMBK52               |
| DA         | 3WK3   | DAMV3CK3P-NK87        | DAMZ3CK3P-NK87     | DAMMV3XK3P-N           | DAMMZ3XK3P-N           | DAM23XK3P-NNMBK52              |
| DB         | 5W5    | DBMV5C5P-NK87         | DBMZ5C5P-NK87      | DBMMV5X5P-N            | DBMMZ5X5P-N            | DBM25X5P-NNMBK52               |
| DB         | 9W4    | DBMV9C4P-NK87         | DBMZ9C4P-NK87      | DBMMV9X4P-N            | DBMMZ9X4P-N            | DBM29X4P-NNMBK52               |
| DB         | 13W3   | DBMV13C3P-NK87        | DBMZ13C3P-NK87     | DBMMV13X3P-N           | DBMMZ13X3P-N           | DBM213X3P-NNMBK52              |
| DB         | 17W2   | DBMV17C2P-NK87        | DBMZ17C2P-NK87     | DBMMV17X2P-N           | DBMMZ17X2P-N           | DBM217X2P-NNMBK52              |
| DB         | 21W1   | DBMV21C1P-NK87        | DBMZ21C1P-NK87     | DBMMV21X1P-N           | DBMMZ21X1P-N           | DBM221X1P-NNMBK52              |
| DC         | 8W8    | DCMV8C8P-NK87         | DCMZ8C8P-NK87      | DCMMV8X8P-N            | DCMMZ8X8P-N            | DCM28X8P-NNMBK52               |
| DC         | 13W6   | DCMV13C6P-NK87        | DCMZ13C6P-NK87     | DCMMV13X6P-N           | DCMMZ13X6P-N           | DCM213X6P-NNMBK52              |
| DC         | 17W5   | DCMV17C5P-NK87        | DCMZ17C5P-NK87     | DCMMV17X5P-N           | DCMMZ17X5P-N           | DCM217X5P-NNMBK52              |
| DC         | 21WA4  | DCMV21CA4P-NK87       | DCMZ21CA4P-NK87    | DCMMV21XA4P-N          | DCMMZ21XA4P-N          | DCM221XA4P-NNMBK52             |
| DC         | 25W3   | DCMV25C3P-NK87        | DCMZ25C3P-NK87     | DCMMV25X3P-N           | DCMMZ25X3P-N           | DCM225X3P-NNMBK52              |
| DC         | 27W2   | DCMV27C2P-NK87        | DCMZ27C2P-NK87     | DCMMV27X2P-N           | DCMMZ27X2P-N           | DCM227X2P-NNMBK52              |
| DD         | 24W7   | DDMV24C7P-NK87        | DDMZ24C7P-NK87     | DDMMV24X7P-N           | DDMMZ24X7P-N           | DDM224X7P-NNMBK52              |
| DD         | 36W4   | DDMV36C4P-NK87        | DDMZ36C4P-NK87     | DDMMV36X4P-N           | DDMMZ36X4P-N           | DDM236X4P-NNMBK52              |
| DD         | 43W2   | DDMV43C2P-NK87        | DDMZ43C2P-NK87     | DDMMV43X2P-N           | DDMMZ43X2P-N           | DDM243X2P-NNMBK52              |
| DD         | 47W1   | DDMV47C1P-NK87        | DDMZ47C1P-NK87     | DDMMV47X1P-N           | DDMMZ47X1P-N           | DDM247X1P-NNMBK52              |

\* For 50 ohm coaxial inserts replace C with X, e.g.:DDMZ43C2P-N becomes DDMZ43X2P-N. For M-3 and other hardware options, see Combo D Catalog.

\*\*\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D- Contact factory for more information



Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.665)  | 24,99 (.984)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | —             | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | —             | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | —               | 6,84 (.269)   | 0,99 (.039)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | —               | 6,84 (.269)   | 0,99 (.039)   |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | 6,84 (.269)     | 0,99 (.039)   | —             |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Coax Straight PCB Receptacle DE-DD

## Coaxial Straight PCB Receptacle, sizes DE-DD

### Receptacle



- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

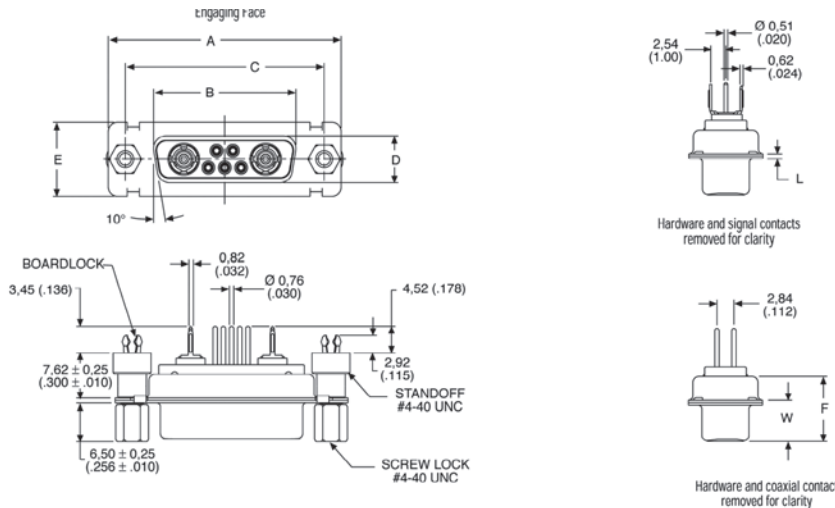
75 Ohm\* coax inserted with straight contacts and standoff with UNC 4-40 thread

| Shell size | Layout | 75 OHM INDUSTRIAL     |                    | 50 OHM MILITARY/HI-REL |                        | 50 OHM NON-MAGNETIC/LOW OUTGASSING*** |
|------------|--------|-----------------------|--------------------|------------------------|------------------------|---------------------------------------|
|            |        | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock  | P/N with UNC Boardlock | P/N with Gold Plating                 |
| DE         | 2W2    | DEMV2C2S-NA197        | DEMZ2C2S-NA197     | DEMMV2X2S-N            | DEMMZ2X2S-N            | DEM2X2S-NNMBK52                       |
| DE         | 2WK2   | DEMV2CK2S-NA197       | DEMZ2CK2S-NA197    | DEMMV2XK2S-N           | DEMMZ2XK2S-N           | DEM2XK2S-NNMBK52                      |
| DE         | 5W1    | DEMV5C1S-NA197        | DEMZ5C1S-NA197     | DEMMV5X1S-N            | DEMMZ5X1S-N            | DEM5X1S-NNMBK52                       |
| DA         | 7W2    | DAMV7C2S-NA197        | DAMZ7C2S-NA197     | DAMMV7X2S-N            | DAMMZ7X2S-N            | DAM7X2S-NNMBK52                       |
| DA         | 11W1   | DAMV11C1S-NA197       | DAMZ11C1S-NA197    | DAMMV11X1S-N           | DAMMZ11X1S-N           | DAM11X1S-NNMBK52                      |
| DA         | 3W3    | DAMV3C3S-NA197        | DAMZ3C3S-NA197     | DAMMV3X3S-N            | DAMMZ3X3S-N            | DAM3X3S-NNMBK52                       |
| DA         | 3WK3   | DAMV3CK3S-NA197       | DAMZ3CK3S-NA197    | DAMMV3XK3S-N           | DAMMZ3XK3S-N           | DAM3XK3S-NNMBK52                      |
| DB         | 5W5    | DBMV5C5S-NA197        | DBMZ5C5S-NA197     | DBMMV5X5S-N            | DBMMZ5X5S-N            | DBM5X5S-NNMBK52                       |
| DB         | 9W4    | DBMV9C4S-NA197        | DBMZ9C4S-NA197     | DBMMV9X4S-N            | DBMMZ9X4S-N            | DBM9X4S-NNMBK52                       |
| DB         | 13W3   | DBMV13C3S-NA197       | DBMZ13C3S-NA197    | DBMMV13X3S-N           | DBMMZ13X3S-N           | DBM13X3S-NNMBK52                      |
| DB         | 17W2   | DBMV17C2S-NA197       | DBMZ17C2S-NA197    | DBMMV17X2S-N           | DBMMZ17X2S-N           | DBM17X2S-NNMBK52                      |
| DB         | 21W1   | DBMV21C1S-NA197       | DBMZ21C1S-NA197    | DBMMV21X1S-N           | DBMMZ21X1S-N           | DBM21X1S-NNMBK52                      |
| DC         | 8W8    | DCMV8C8S-NA197        | DCMZ8C8S-NA197     | DCMMV8X8S-N            | DCMMZ8X8S-N            | DCM8X8S-NNMBK52                       |
| DC         | 13W6   | DCMV13C6S-NA197       | DCMZ13C6S-NA197    | DCMMV13X6S-N           | DCMMZ13X6S-N           | DCM13X6S-NNMBK52                      |
| DC         | 17W5   | DCMV17C5S-NA197       | DCMZ17C5S-NA197    | DCMMV17X5S-N           | DCMMZ17X5S-N           | DCM17X5S-NNMBK52                      |
| DC         | 21WA4  | DCMV21CA4S-NA197      | DCMZ21CA4S-NA197   | DCMMV21XA4S-N          | DCMMZ21XA4S-N          | DCM21XA4S-NNMBK52                     |
| DC         | 25W3   | DCMV25C3S-NA197       | DCMZ25C3S-NA197    | DCMMV25X3S-N           | DCMMZ25X3S-N           | DCM25X3S-NNMBK52                      |
| DC         | 27W2   | DCMV27C2S-NA197       | DCMZ27C2S-NA197    | DCMMV27X2S-N           | DCMMZ27X2S-N           | DCM27X2S-NNMBK52                      |
| DD         | 24W7   | DDMV24C7S-NA197       | DDMZ24C7S-NA197    | DDMMV24X7S-N           | DDMMZ24X7S-N           | DDM24X7S-NNMBK52                      |
| DD         | 36W4   | DDMV36C4S-NA197       | DDMZ36C4S-NA197    | DDMMV36X4S-N           | DDMMZ36X4S-N           | DDM36X4S-NNMBK52                      |
| DD         | 43W2   | DDMV43C2S-NA197       | DDMZ43C2S-NA197    | DDMMV43X2S-N           | DDMMZ43X2S-N           | DDM43X2S-NNMBK52                      |
| DD         | 47W1   | DDMV47C1S-NA197       | DDMZ47C1S-NA197    | DDMMV47X1S-N           | DDMMZ47X1S-N           | DDM47X1S-NNMBK52                      |

\* For 50 ohm coaxial inserts replace C with X, e.g.:DDMZ43C2S-N becomes DDMZ43X2S-N.

\*\*For M-3 and other hardware options, see Combo D Catalog.

\*\*\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D- Contact factory for more information



### Dimensions

| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,38 (.015) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,33 (.643)       | 24,99 (.984)       | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 24,65 (.971)       | 33,32 (1.312)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,38 (1.511)      | 47,04 (1.852)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DC         | 69,32 (2.729)      | 54,84 (2.159)      | 63,50 (2.500)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DD         | 66,93 (2.635)      | 52,42 (2.064)      | 61,11 (2.406)      | 10,74 (.423)       | 15,37 (.605)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |



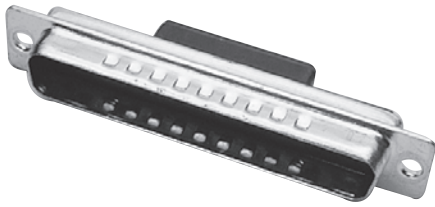
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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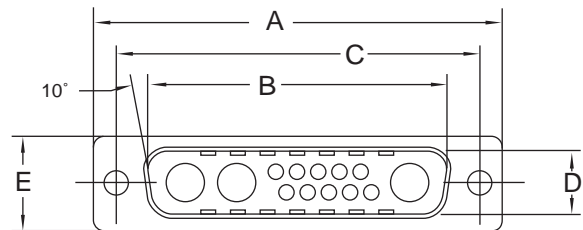
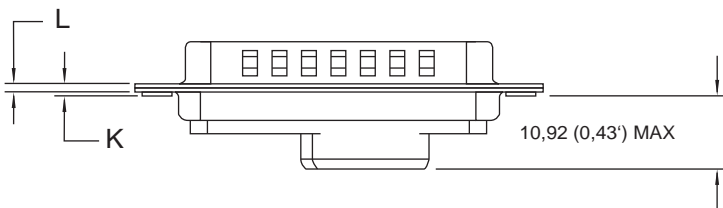
Plug, Crimp Cable Connectors without Contacts, Sizes DE-DD

Plug



- For contact cavity arrangements, see page C-43
- For crimp contacts size 20, see page C-13.
- Size 8 contacts, please refer to Combo D catalog.

| Shell size | Layout | INDUSTRIAL Part number | MILITARY/HI-REL Part number | NON-MAGNETIC/LOW OUTGASSING** Part number |
|------------|--------|------------------------|-----------------------------|---|
| DE         | 2W2    | DEA2W2PK87FO           | DEA2W2PFO                   | DEA2W2PNMBK47FO                           |
| DE         | 2WK2   | DEA2WK2PK87FO          | DEA2WK2PFO                  | DEA2WK2PNMBK47FO                          |
| DA         | 7W2    | DAA7W2PK87FO           | DAA7W2PFO                   | DAA7W2PNMBK47FO                           |
| DA         | 11W1   | DAA11W1PK87FO          | DAA11W1PFO                  | DAA11W1PNMBK47FO                          |
| DA         | 3W3    | DAA3W3PK87FO           | DAA3W3PFO                   | DAA3W3PNMBK47FO                           |
| DA         | 3WK3   | DAA3WK3PK87FO          | DAA3WK3PFO                  | DAA3WK3PNMBK47FO                          |
| DB         | 5W5    | DBA5W5PK87FO           | DBA5W5PFO                   | DBA5W5PNMBK47FO                           |
| DB         | 9W4    | DBA9W4PK87FO           | DBA9W4PFO                   | DBA9W4PNMBK47FO                           |
| DB         | 13W3   | DBA13W3PK87FO          | DBA13W3PFO                  | DBA13W3PNMBK47FO                          |
| DB         | 17W2   | DBA17W2PK87FO          | DBA17W2PFO                  | DBA17W2PNMBK47FO                          |
| DB         | 21W1   | DBA21W1PK87FO          | DBA21W1PFO                  | DBA21W1PNMBK47FO                          |
| DC         | 8W8    | DCA8W8PK87FO           | DCA8W8PFO                   | DCA8W8PNMBK47FO                           |
| DC         | 21WA4  | DCA21WA4PK87FO         | DCA21WA4PFO                 | DCA21WA4PNMBK47FO                         |
| DD         | 24W7   | DDA24W7PK87FO          | DDA24W7PFO                  | DDA24W7PNMBK47FO                          |
| DD         | 36W4   | DDA36W4PK87FO          | DDA36W4PFO                  | DDA36W4PNMBK47FO                          |
| DD         | 43W2   | DDA43W2PK87FO          | DDA43W2PFO                  | DDA43W2PNMBK47FO                          |



Dimensions

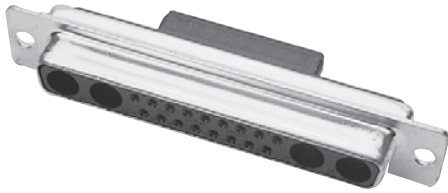
| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,368 (.0145) | W<br>± 0,41 (.016) | K<br>± 0,317 (.0125) | K<br>± 0,25 (.010) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|----------------------|--------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,92 (.666)       | 24,99 (.984)       | 8,36 (.329)        | 12,55 (.494)       | 10,72 (.422)       | 6,693 (.2635)        | —                  | 1,206 (.0475)        | —                  | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 25,25 (.994)       | 33,32 (1.312)      | 8,36 (.329)        | 12,55 (.494)       | 10,72 (.422)       | 6,693 (.2635)        | —                  | 1,206 (.0475)        | —                  | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,96 (1.534)      | 47,04 (1.852)      | 8,36 (.329)        | 12,55 (.494)       | 10,82 (.426)       | —                    | 6,84 (.269)        | —                    | 1,52 (.060)        | 0,99 (.039)        |
| DC         | 69,32 (2.729)      | 55,42 (2.182)      | 63,50 (2,500)      | 8,36 (.329)        | 12,55 (.494)       | 10,82 (.426)       | —                    | 6,84 (.269)        | —                    | 1,52 (.060)        | 0,99 (.039)        |
| DD         | 66,93 (2.635)      | 52,81 (2.079)      | 61,11 (2,406)      | 11,07 (.436)       | 15,37 (.605)       | 10,82 (.426)       | —                    | 6,84 (.269)        | —                    | 1,52 (.060)        | 0,99 (.039)        |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon Combo-D, Crimp Military/High Reliability

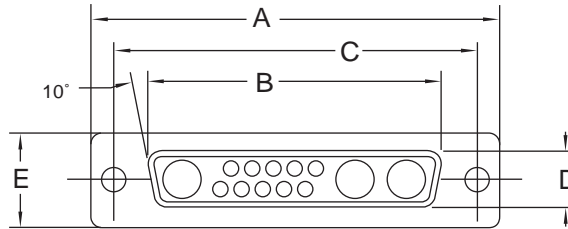
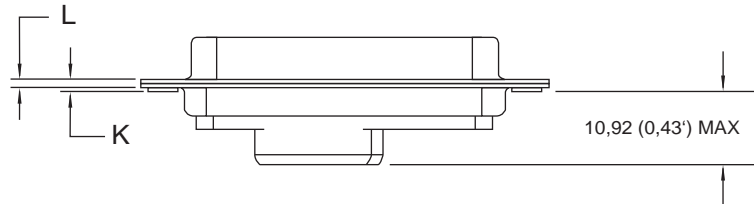
## Receptacle, Crimp Cable Connectors without Contacts, Sizes DE-DD

### Receptacle



- For contact cavity arrangements, see page C-43.
- For crimp contacts size 20, see page C-13.
- Size 8 contacts, please refer to Combo D catalog.

| Shell size | Layout | INDUSTRIAL Part number | MILITARY/HI-REL Part number | NON-MAGNETIC/LOW OUTGASSING** Part number |
|------------|--------|------------------------|-----------------------------|---|
| DE         | 2W2    | DEA2W2SA197FO          | DEA2W2SFO                   | DEA2W2SNMBK47FO                           |
| DE         | 2WK2   | DEA2WK2SA197FO         | DEA2WK2SFO                  | DEA2WK2SNMBK47FO                          |
| DA         | 7W2    | DAA7W2SA197FO          | DAA7W2SFO                   | DAA7W2SNMBK47FO                           |
| DA         | 11W1   | DAA11W1SA197FO         | DAA11W1SFO                  | DAA11W1SNMBK47FO                          |
| DA         | 3W3    | DAA3W3SA197FO          | DAA3W3SFO                   | DAA3W3SNMBK47FO                           |
| DA         | 3WK3   | DAA3WK3SA197FO         | DAA3WK3SFO                  | DAA3WK3SNMBK47FO                          |
| DB         | 5W5    | DBA5W5SA197FO          | DBA5W5SFO                   | DBA5W5SNMBK47FO                           |
| DB         | 9W4    | DBA9W4SA197FO          | DBA9W4SFO                   | DBA9W4SNMBK47FO                           |
| DB         | 13W3   | DBA13W3SA197FO         | DBA13W3SFO                  | DBA13W3SNMBK47FO                          |
| DB         | 17W2   | DBA17W2SA197FO         | DBA17W2SFO                  | DBA17W2SNMBK47FO                          |
| DB         | 21W1   | DBA21W1SA197FO         | DBA21W1SFO                  | DBA21W1SNMBK47FO                          |
| DC         | 8W8    | DCA8W8SA197FO          | DCA8W8SFO                   | DCA8W8SNMBK47FO                           |
| DC         | 21WA4  | DCA21WA4SA197FO        | DCA21WA4SFO                 | DCA21WA4SNMBK47FO                         |
| DD         | 24W7   | DDA24W7SA197FO         | DDA24W7SFO                  | DDA24W7SNMBK47FO                          |
| DD         | 36W4   | DDA36W4SA197FO         | DDA36W4SFO                  | DDA36W4SNMBK47FO                          |
| DD         | 43W2   | DDA43W2SA197FO         | DDA43W2SFO                  | DDA43W2SNMBK47FO                          |



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W             | K               | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,38 (.015) | ± 0,317 (.0125) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,33 (.643)  | 24,99 (.984)  | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 24,65 (.971)  | 33,32 (1.312) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,38 (1.511) | 47,04 (1.852) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DC         | 69,32 (2.729) | 54,84 (2.159) | 63,50 (2.500) | 7,90 (.311)   | 12,55 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423)  | 15,37 (.494)  | 10,90 (.429)  | 6,94 (.273)   | 1,206 (.0475)   | 0,76 (.030)   |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

## 40 A High Power Straight PCB Plug, Sizes DE-DC

### Plug



- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

### 40 A High power inserted with straight contacts and standoff with UNC 4-40 thread

| Shell size | Layout | INDUSTRIAL            |                    | MILITARY/HI-REL       |                        | NON-MAGNETIC*/LOW OUTGASSING** |                       |
|------------|--------|-----------------------|--------------------|-----------------------|------------------------|--------------------------------|-----------------------|
|            |        | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with UNC Boardlock | P/N without Boardlock          | P/N with Gold Plating |
| DE         | 2W2    | DEM2H2PNK87           | DEM2H2P-NK87       | DEMMV2H2P-N           | DEMMZ2H2P-N            | DEM2H2P-NNMBK52                |                       |
| DE         | 2WK2   | DEM2HK2PNK87          | DEM2HK2P-NK87      | DEMMV2HK2P-N          | DEMMZ2HK2P-N           | DEM2HK2P-NNMBK52               |                       |
| DE         | 5W1    | DEM5H1PNK87           | DEM5H1P-NK87       | DEMMV5H1P-N           | DEMMZ5H1P-N            | DEM5H1P-NNMBK52                |                       |
| DA         | 7W2    | DAMV7H2PNK87          | DAMZ7H2P-NK87      | DAMMV7H2P-N           | DAMMZ7H2P-N            | DAMZ7H2P-NNMBK52               |                       |
| DA         | 11W1   | DAMV11H1PNK87         | DAMZ11H1P-NK87     | DAMMV11H1P-N          | DAMMZ11H1P-N           | DAMZ11H1P-NNMBK52              |                       |
| DA         | 3W3    | DAMV3H3PNK87          | DAMZ3H3P-NK87      | DAMMV3H3P-N           | DAMMZ3H3P-N            | DAMZ3H3P-NNMBK52               |                       |
| DA         | 3WK3   | DAMV3HK3PNK87         | DAMZ3HK3P-NK87     | DAMMV3HK3P-N          | DAMMZ3HK3P-N           | DAMZ3HK3P-NNMBK52              |                       |
| DB         | 5W5    | DBMV5H5PNK87          | DBMZ5H5P-NK87      | DBMMV5H5P-N           | DBMMZ5H5P-N            | DBMZ5H5P-NNMBK52               |                       |
| DB         | 9W4    | DBMV9H4PNK87          | DBMZ9H4P-NK87      | DBMMV9H4P-N           | DBMMZ9H4P-N            | DBMZ9H4P-NNMBK52               |                       |
| DB         | 13W3   | DBMV13H3PNK87         | DBMZ13H3P-NK87     | DBMMV13H3P-N          | DBMMZ13H3P-N           | DBMZ13H3P-NNMBK52              |                       |
| DB         | 17W2   | DBMV17H2PNK87         | DBMZ17H2P-NK87     | DBMMV17H2P-N          | DBMMZ17H2P-N           | DBMZ17H2P-NNMBK52              |                       |
| DB         | 21W1   | DBMV21H1PNK87         | DBMZ21H1P-NK87     | DBMMV21H1P-N          | DBMMZ21H1P-N           | DBMZ21H1P-NNMBK52              |                       |
| DC         | 8W8    | DCMV8H8PNK87          | DCMZ8H8P-NK87      | DCMMV8H8P-N           | DCMMZ8H8P-N            | DCMZ8H8P-NNMBK52               |                       |
| DC         | 13W6   | DCMV13H6PNK87         | DCMZ13H6P-NK87     | DCMMV13H6P-N          | DCMMZ13H6P-N           | DCMZ13H6P-NNMBK52              |                       |
| DC         | 17W5   | DCMV17H5PNK87         | DCMZ17H5P-NK87     | DCMMV17H5P-N          | DCMMZ17H5P-N           | DCMZ17H5P-NNMBK52              |                       |
| DC         | 21WA4  | DCMV21HA4PNK87        | DCMZ21HA4P-NK87    | DCMMV21HA4P-N         | DCMMZ21HA4P-N          | DCMZ21HA4P-NNMBK52             |                       |
| DC         | 25W3   | DCMV25H3PNK87         | DCMZ25H3P-NK87     | DCMMV25H3P-N          | DCMMZ25H3P-N           | DCMZ25H3P-NNMBK52              |                       |
| DC         | 27W2   | DCMV27H2PNK87         | DCMZ27H2P-NK87     | DCMMV27H2P-N          | DCMMZ27H2P-N           | DCMZ27H2P-NNMBK52              |                       |

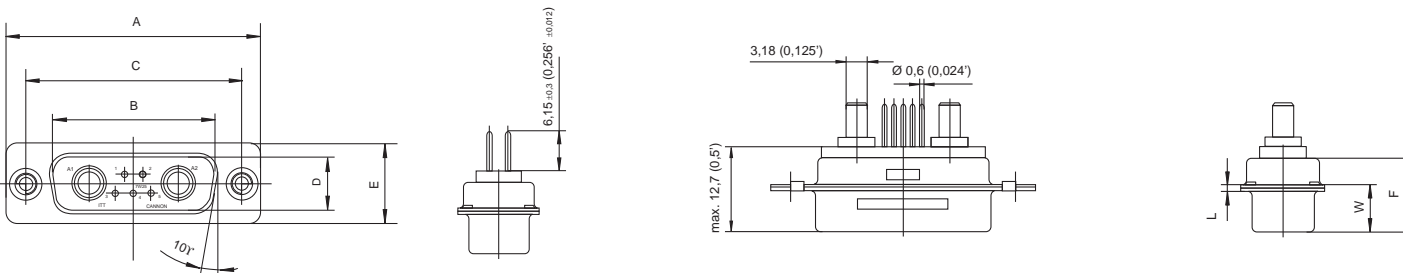
\*\*Hardware Modifier not allowed on Non-Magnetic/Low Outgassing Versions; consult factory for more information

\*\*For other hardware options, see Combo D Catalog.

### 40 A High power straight inserted with straight contacts and standoff with 4-40 thread

| Shell size | Layout | P/N Industrial | P/N Military | P/N Base**       |
|------------|--------|----------------|--------------|------------------|
| DD         | 24W7   | DDM24H7P-NK87  | DDMM24H7P-N  | DDM24H7P-NNMBK52 |
| DD         | 36W4   | DDM36H4P-NK87  | DDMM36H4P-N  | DDM36H4P-NNMBK52 |
| DD         | 43W2   | DDM43H2P-NK87  | DDMM43H2P-N  | DDM43H2P-NNMBK52 |
| DD         | 47W1   | DDM47H1P-NK87  | DDMM47H1P-N  | DDM47H1P-NNMBK52 |

\*For M-3 hardware and other hardware options, see Combo D Catalog. \*\*\* Hardware Modifier not allowed on Non-Magnetic/Low Outgassing Versions; consult factory for more information



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W               | W             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|
|            | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,368 (.0145) | ± 0,41 (.016) | ± 0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.665)  | 24,99 (.984)  | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | —             | 0,76 (.030)   |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)   | 12,55 (.494)  | 10,72 (.422)  | 6,693 (.2635)   | —             | 0,76 (.030)   |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | —               | 6,84 (.269)   | 0,99 (.039)   |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)   | 12,55 (.494)  | 10,82 (.426)  | —               | 6,84 (.269)   | 0,99 (.039)   |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | —               | 6,84 (.264)   | 0,99 (.039)   |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

**40 A High Power Straight PCB Receptacle, Sizes DE-DC**

Receptacle



- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

**40 A High power inserted with straight contacts and standoff with UNC 4-40 thread**

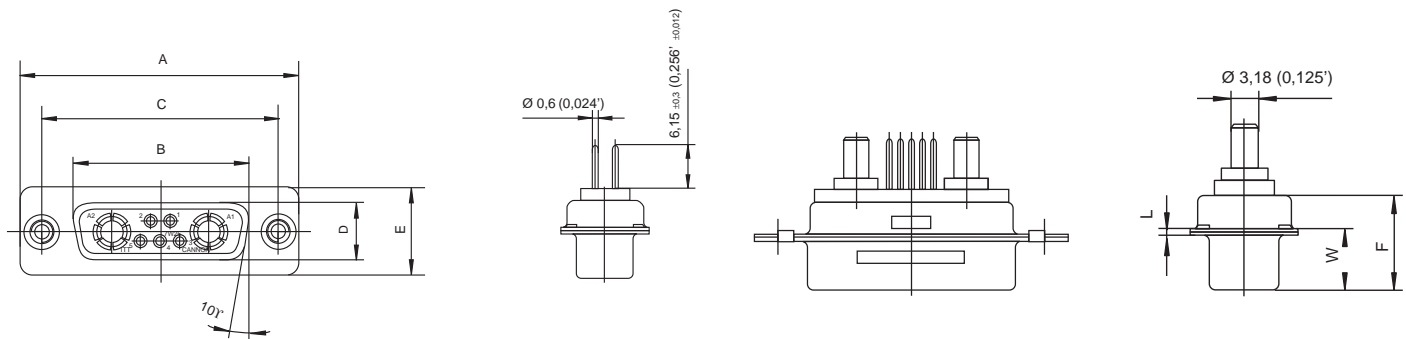
| Shell size | Layout | INDUSTRIAL          |                  | MILITARY/HI-REL     |                  | NON-MAGNETIC**/LOW OUTGASSING*** |                       |
|------------|--------|---------------------|------------------|---------------------|------------------|----------------------------------|-----------------------|
|            |        | P/N without pushfit | P/N with pushfit | P/N without pushfit | P/N with pushfit | P/N with Cadmium Plating         | P/N with Gold Plating |
| DE         | 2W2    | DEM2H2SNA197        | DEM2H2S-NA197    | DEMMV2H2S-N         | DEMMZ2H2S-N      | DEM2H2S-NNMB                     | DEM2H2S-NNMBK52       |
| DE         | 2WK2   | DEMV2HK2SNA197      | DEM2HK2S-NA197   | DEMMV2HK2S-N        | DEMMZ2HK2S-N     | DEM2HK2S-NNMB                    | DEM2HK2S-NNMBK52      |
| DE         | 5W1    | DEMV5H1SNA197       | DEM25H1S-NA197   | DEMMV5H1S-N         | DEMMZ2HK2S-N     | DEM5H1S-NNMB                     | DEM5H1S-NNMBK52       |
| DA         | 7W2    | DAMV7H2SNA197       | DAMZ7H2S-NA197   | DAMMV7H2S-N         | DAMMZ7H2S-N      | DAM7H2S-NNMB                     | DAM7H2S-NNMBK52       |
| DA         | 11W1   | DAMV11H1SNA197      | DAMZ11H1S-NA197  | DAMMV11H1S-N        | DAMMZ11H1S-N     | DAM11H1S-NNMB                    | DAM11H1S-NNMBK52      |
| DA         | 3W3    | DAMV3H3SNA197       | DAMZ3H3S-NA197   | DAMMV3H3S-N         | DAMMZ3H3S-N      | DAM3H3S-NNMB                     | DAM3H3S-NNMBK52       |
| DA         | 3WK3   | DAMV3HK3SNA197      | DAMZ3HK3S-NA197  | DAMMV3HK3S-N        | DAMMZ3HK3S-N     | DAM3HK3S-NNMB                    | DAM3HK3S-NNMBK52      |
| DB         | 5W5    | DBMV5H5SNA197       | DBMZ5H5S-NA197   | DBMMV5H5S-N         | DBMMZ5H5S-N      | DBM5H5S-NNMB                     | DBM5H5S-NNMBK52       |
| DB         | 9W4    | DBMV9H4SNA197       | DBMZ9H4S-NA197   | DBMMV9H4S-N         | DBMMZ9H4S-N      | DBM9H4S-NNMB                     | DBM9H4S-NNMBK52       |
| DB         | 13W3   | DBMV13H3SNA197      | DBMZ13H3S-NA197  | DBMMV13H3S-N        | DBMMZ13H3S-N     | DBM13H3S-NNMB                    | DBM13H3S-NNMBK52      |
| DB         | 17W2   | DBMV17H2SNA197      | DBMZ17H2S-NA197  | DBMMV17H2S-N        | DBMMZ17H2S-N     | DBM17H2S-NNMB                    | DBM17H2S-NNMBK52      |
| DB         | 21W1   | DBMV21H1SNA197      | DBMZ21H1S-NA197  | DBMMV21H1S-N        | DBMMZ21H1S-N     | DBM21H1S-NNMB                    | DBM21H1S-NNMBK52      |
| DC         | 8W8    | DCMV8H8SNA197       | DCMZ8H8S-NA197   | DCMMV8H8S-N         | DCMMZ8H8S-N      | DCM8H8S-NNMB                     | DCM8H8S-NNMBK52       |
| DC         | 13W6   | DCMV13H6SNA197      | DCMZ13H6S-NA197  | DCMMV13H6S-N        | DCMMZ13H6S-N     | DCM13H6S-NNMB                    | DCM13H6S-NNMBK52      |
| DC         | 17W5   | DCMV17H5SNA197      | DCMZ17H5S-NA197  | DCMMV17H5S-N        | DCMMZ17H5S-N     | DCM17H5S-NNMB                    | DCM17H5S-NNMBK52      |
| DC         | 21WA4  | DCMV21HA4SNA197     | DCMZ21HA4S-NA197 | DCMMV21HA4S-N       | DCMMZ21HA4S-N    | DCM21HA4S-NNMB                   | DCM21HA4S-NNMBK52     |
| DC         | 25W3   | DCMV25H3SNA197      | DCMZ25H3S-NA197  | DCMMV25H3S-N        | DCMMZ25H3S-N     | DCM25H3S-NNMB                    | DCM25H3S-NNMBK52      |
| DC         | 27W2   | DCMV27H2SNA197      | DCMZ27H2S-NA197  | DCMMV27H2S-N        | DCMMZ27H2S-N     | DCM27H2S-NNMB                    | DCM27H2S-NNMBK52      |

**40 A High power straight inserted with straight contacts and standoff with 4-40 thread**

| Shell size | Layout | P/N Industrial | P/N Military | P/N Base*        |
|------------|--------|----------------|--------------|------------------|
| DD         | 24W7   | DDM24H7S-NA197 | DDMM24H7S-N  | DDM24H7S-NNMBK52 |
| DD         | 36W4   | DDM36H4S-NA197 | DDMM36H4S-N  | DDM36H4S-NNMBK52 |
| DD         | 43W2   | DDM43H2S-NA197 | DDMM43H2S-N  | DDM43H2S-NNMBK52 |
| DD         | 47W1   | DDM47H1S-NA197 | DDMM47H1S-N  | DDM47H1S-NNMBK52 |

\*For other hardware options, see Combo D Catalog.

\*\*\* Hardware Modifier not allowed on Non-Magnetic/ Low Outgassing Versions; consult factory for more information.



**Dimensions**

| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,38 (.015) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,33 (.643)       | 24,99 (.984)       | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 24,65 (.971)       | 33,32 (1.312)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,38 (1.511)      | 47,04 (1.852)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DC         | 69,32 (2.729)      | 54,84 (2.159)      | 63,50 (2.500)      | 7,90 (.311)        | 12,55 (.494)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |
| DD         | 66,93 (2.635)      | 52,42 (2.406)      | 61,11 (2.406)      | 10,74 (.423)       | 15,37 (.605)       | 10,90 (.429)       | 6,94 (.273)        | 0,76 (.030)        |

\*For other hardware options, see Combo D Catalog.

\*\*\*Hardware Modifier not allowed on Non-Magnetic/Low Outgassing Versions; consult factory for more information.



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

## Coaxial 90° PCB Plug, sizes DE-DC, with metal bracket

### Plug



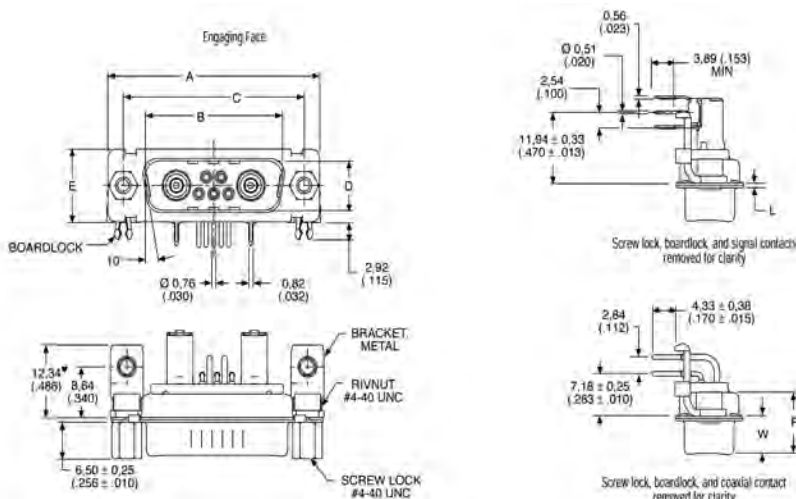
- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

| Shell size | Layout | INDUSTRIAL – US<br>75 Ohm* coax inserted with US footprint metal bracket and UNC 4-40 captive nut |                    | INDUSTRIAL – EU**<br>75 Ohm* coax inserted with EU footprint metal bracket and UNC 4-40 captive nut |                    | MILITARY/HI-REL – US<br>50 Ohm* coax inserted with US footprint metal bracket and UNC 4-40 screw lock |                    | NON-MAGNETIC- LOW OUTGASSING – US***<br>50 Ohm* coax inserted with US footprint metal bracket and UNC 4-40 screw lock |                       |
|------------|--------|---|--------------------|---|--------------------|---|--------------------|---|-----------------------|
|            |        | P/N without Boardlock   | P/N with Boardlock | P/N without Boardlock   | P/N with Boardlock | P/N without Boardlock   | P/N with Boardlock | P/N without Boardlock   | P/N with Gold Plating |
| DE         | 2W2    | DEMP2C2P-JK87   | DEMC2C2P-JK87      | DEMP2C2P-VK87   | DEMC2C2P-VK87      | DEMMD2X2P-J   | DEMMG2X2P-J        | DEM2X2P-JNMBK52   |                       |
| DE         | 2WK2   | DEMP2CK2P-JK87  | DEMC2CK2P-JK87     | DEMP2CK2P-VK87  | DEMC2CK2P-VK87     | DEMMD2XK2P-J  | DEMMG2XK2P-J       | DEM2XK2P-JNMBK52  |                       |
| DE         | 5W1    | DEMP5C1P-JK87   | DEMC5C1P-JK87      | DEMP5C1P-VK87   | DEMC5C1P-VK87      | DEMMD5X1P-J   | DEMMG5X1P-J        | DEM5X1P-JNMBK52   |                       |
| DA         | 7W2    | DAMP7C2P-JK87   | DAMC7C2P-JK87      | DAMP7C2P-VK87   | DAMC7C2P-VK87      | DAMMD7X2P-J   | DAMMG7X2P-J        | DAM7X2P-JNMBK52   |                       |
| DA         | 11W1   | DAMP11C1P-JK87  | DAMC11C1P-JK87     | DAMP11C1P-VK87  | DAMC11C1P-VK87     | DAMMD11X1P-J  | DAMMG11X1P-J       | DAM11X1P-JNMBK52  |                       |
| DA         | 3W3    | DAMP3C3P-JK87   | DAMC3C3P-JK87      | DAMP3C3P-VK87   | DAMC3C3P-VK87      | DAMMD3X3P-J   | DAMMG3X3P-J        | DAM3X3P-JNMBK52   |                       |
| DA         | 3WK3   | DAMP3CK3P-JK87  | DAMC3CK3P-JK87     | DAMP3CK3P-VK87  | DAMC3CK3P-VK87     | DAMMD3XK3P-J  | DAMMG3XK3P-J       | DAM3XK3P-JNMBK52  |                       |
| DB         | 5W5    | DBMP5C5P-JK87   | DBMC5C5P-JK87      | DBMP5C5P-VK87   | DBMC5C5P-VK87      | DBMMD5X5P-J   | DBMMG5X5P-J        | DBM5X5P-JNMBK52   |                       |
| DB         | 9W4    | DBMP9C4P-JK87   | DBMC9C4P-JK87      | DBMP9C4P-VK87   | DBMC9C4P-VK87      | DBMMD9X4P-J   | DBMMG9X4P-J        | DBM9X4P-JNMBK52   |                       |
| DB         | 13W3   | DBMP13C3P-JK87  | DBMC13C3P-JK87     | DBMP13C3P-VK87  | DBMC13C3P-VK87     | DBMMD13X3P-J  | DBMMG13X3P-J       | DBM13X3P-JNMBK52  |                       |
| DB         | 17W2   | DBMP17C2P-JK87  | DBMC17C2P-JK87     | DBMP17C2P-VK87  | DBMC17C2P-VK87     | DBMMD17X2P-J  | DBMMG17X2P-J       | DBM17X2P-JNMBK52  |                       |
| DB         | 21W1   | DBMP21C1P-JK87  | DBMC21C1P-JK87     | DBMP21C1P-VK87  | DBMC21C1P-VK87     | DBMMD21X1P-J  | DBMMG21X1P-J       | DBM21X1P-JNMBK52  |                       |
| DC         | 8W8    | DCMP8C8P-JK87   | DCMC8C8P-JK87      | DCMP8C8P-VK87   | DCMC8C8P-VK87      | DCMMD8X8P-J   | DCMMG8X8P-J        | DCM8X8P-JNMBK52   |                       |
| DC         | 13W6   | DCMP13C6P-JK87  | DCMC13C6P-JK87     | DCMP13C6P-VK87  | DCMC13C6P-VK87     | DCMMD13X6P-J  | DCMMG13X6P-J       | DCM13X6P-JNMBK52  |                       |
| DC         | 17W5   | DCMP17C5P-JK87  | DCMC17C5P-JK87     | DCMP17C5P-VK87  | DCMC17C5P-VK87     | DCMMD17X5P-J  | DCMMG17X5P-J       | DCM17X5P-JNMBK52  |                       |
| DC         | 21WA4  | DCMP21CA4P-JK87   | DCMC21CA4P-JK87    | DCMP21CA4P-VK87   | DCMC21CA4P-VK87    | DCMMD21XA4P-J   | DCMMG21XA4P-J      | DCM21XA4P-JNMBK52   |                       |
| DC         | 25W3   | DCMP25C3P-JK87  | DCMC25C3P-JK87     | DCMP25C3P-VK87  | DCMC25C3P-VK87     | DCMMD25X3P-J  | DCMMG25X3P-J       | DCM25X3P-JNMBK52  |                       |
| DC         | 27W2   | DCMP27C2P-JK87  | DCMC27C2P-JK87     | DCMP27C2P-VK87  | DCMC27C2P-VK87     | DCMMD27X2P-J  | DCMMG27X2P-J       | DCM27X2P-JNMBK52  |                       |

\* For 50 ohm coaxial inserts replace C with X, e.g.:DCM13C6P-J becomes DCM13X6P-J.    \*\*For M-3 hardware, see Combo D Catalog.

\*\*\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D- Contact factory for more information

For 50 ohm coaxial version, see Combo D Catalog.



### Dimensions

| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,368 (.0145) | W<br>± 0,41 (.016) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,92 (.665)       | 24,99 (.984)       | 8,36 (.329)        | 12,55 (.494)       | 10,72 (.422)       | 6,693 (.2635)        | —                  | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 25,25 (.994)       | 33,32 (1.312)      | 8,36 (.329)        | 12,55 (.494)       | 10,72 (.422)       | 6,693 (.2635)        | —                  | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,96 (1.534)      | 47,04 (1.852)      | 8,36 (.329)        | 12,55 (.494)       | 10,82 (.426)       | —                    | 6,84 (.269)        | 0,99 (.039)        |
| DC         | 69,32 (2.729)      | 55,42 (2.182)      | 63,50 (2.500)      | 8,36 (.329)        | 12,55 (.494)       | 10,82 (.426)       | —                    | 6,84 (.269)        | 0,99 (.039)        |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon Combo D® Coax 90° PCB Plug DD Military/High Reliability

## Coaxial 90° PCB Plug, sizes DD, with metal bracket

### Plug



- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

**INDUSTRIAL – US**  
75 Ohm\* coax inserted with  
US footprint metal bracket  
and UNC 4-40 captive nut

**INDUSTRIAL – EU\*\***  
75 Ohm\* coax inserted with  
EU footprint metal bracket  
and UNC 4-40 captive nut

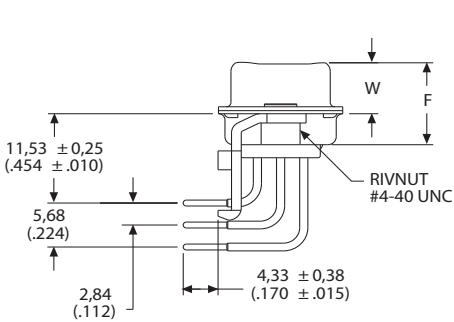
**MILITARY/HI-REL – US**  
50 Ohm\* coax inserted with  
US footprint metal bracket  
and UNC 4-40 screw lock

**NON-MAGNETIC/LOW OUTGASSING-EU\*\*\***  
50 Ohm\* coax inserted with  
US footprint metal bracket  
and UNC 4-40 screw lock

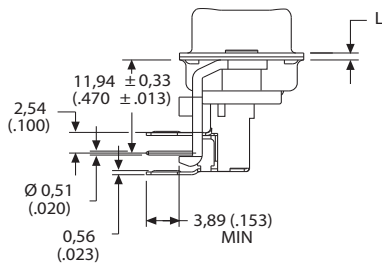
| Shell size | Layout | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N with Gold Plating |
|------------|--------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|
| DD         | 24W7   | DDMP24C7P-JK87        | DDMC24C7P-JK87     | DDMP24C7P-VK87        | DDMC24C7P-VK87     | DDMMD24X7P-J          | DDMMG24X7P-J       | DDM24X7P-JNMBK52      |
| DD         | 36W4   | DDMP36C4P-JK87        | DDMC36C4P-JK87     | DDMP36C4P-VK87        | DDMC36C4P-VK87     | DDMMD36X4P-J          | DDMMG36X4P-J       | DDM36X4P-JNMBK52      |
| DD         | 43W2   | DDMP43C2P-JK87        | DDMC43C2P-JK87     | DDMP43C2P-VK87        | DDMC43C2P-VK87     | DDMMD43X2P-J          | DDMMG43X2P-J       | DDM43X2P-JNMBK52      |
| DD         | 47W1   | DDMP47C1P-JK87        | DDMC47C1P-JK87     | DDMP47C1P-VK87        | DDMC47C1P-VK87     | DDMMD47X1P-J          | DDMMG47X1P-J       | DDM47X1P-JNMBK52      |

\* For 50 ohm coaxial inserts replace C with X, e.g.:DCM13C6P-J becomes DCM13X6P-J. \*\*For M-3 hardware, see Combo D Catalog.

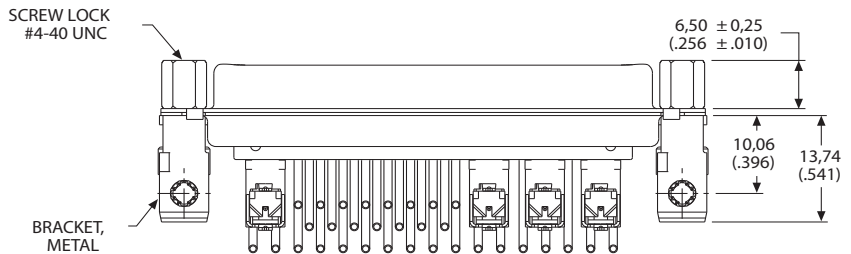
\*\*\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D- Contact factory for more information



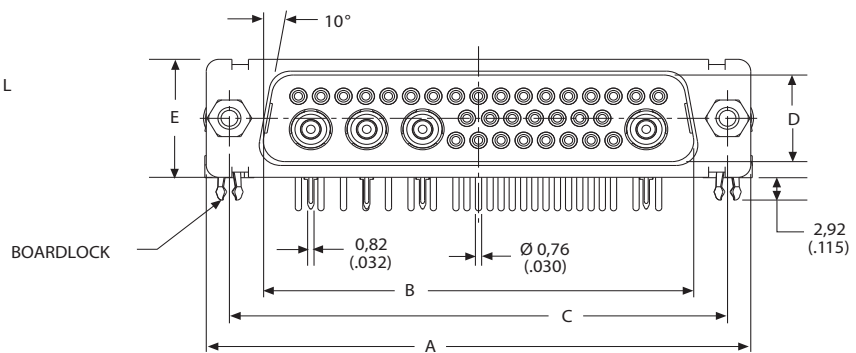
Screw lock, boardlock, and coaxial contact removed for clarity



Screw lock, boardlock, and signal contacts removed for clarity



Engaging Face



US version shown – for EU version, please contact factory.

For 50 ohm coaxial version, see Combo D Catalog

Note: Dimension varies with alternate bracket configuration, see Combo D Catalog.

### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| DD         | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,41 (.015) | ± 0,25 (.010) |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | 6,84 (.269)   | 0,99 (.039)   |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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# Cannon Combo D® Coax 90° PCB Receptacle DE-DC Military/High Reliability

## Coaxial 90° PCB Receptacle, Sizes DE-DC, with metal bracket

### Receptacle



- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

**INDUSTRIAL – US**  
75 Ohm\* coax inserted with US Footprint metal bracket and UNC 4-40 captive nut

**INDUSTRIAL – EU\*\***  
75 Ohm\* coax inserted with EU Footprint metal bracket and UNC 4-40 captive nut

**MILITARY/HI-REL – US**  
50 Ohm\* coax inserted with US Footprint metal bracket and UNC 4-40 screw lock

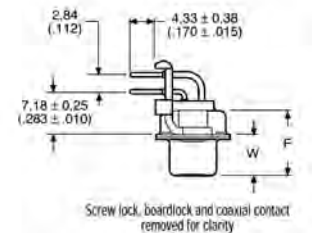
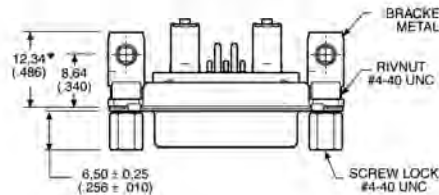
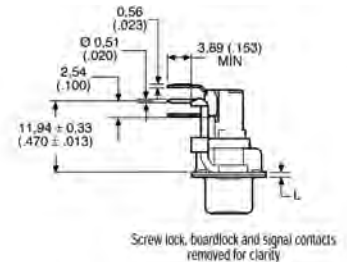
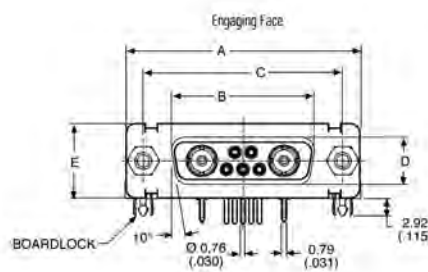
**NON-MAGNETIC/LOW OUTGASSING – US\*\*\***  
50 Ohm\* coax inserted with US Footprint metal bracket and UNC 4-40 screw lock

| Shell size | Layout | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N with Gold Plating |
|------------|--------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|
| DE         | 2W2    | DEMP2C2S-JA197        | DEMC2C2S-JA197     | DEMP2C2S-VA197        | DEMC2C2S-VA197     | DEMMP2X2S-J           | DEMCC2X2S-J        | DEM2X2S-JNMBK52       |
| DE         | 2WK2   | DEMP2CK2S-JA197       | DEMC2CK2S-JA197    | DEMP2CK2S-VA197       | DEMC2CK2S-VA197    | DEMMP2XK2S-J          | DEMCC2XK2S-J       | DEM2XK2S-JNMBK52      |
| DE         | 5W1    | DEMP5C1S-JA197        | DEMC5C1S-JA197     | DEMP5C1S-VA197        | DEMC5C1S-VA197     | DEMMP5X1S-J           | DEMCC5X1S-J        | DEM5X1S-JNMBK52       |
| DA         | 7W2    | DAMP7C2S-JA197        | DAMC7C2S-JA197     | DAMP7C2S-VA197        | DAMC7C2S-VA197     | DAMMP7X2S-J           | DAMMC7X2S-J        | DAM7X2S-JNMBK52       |
| DA         | 11W1   | DAMP11C1S-JA197       | DAMC11C1S-JA197    | DAMP11C1S-VA197       | DAMC11C1S-VA197    | DAMMP11X1S-J          | DAMMC11X1S-J       | DAM11X1S-JNMBK52      |
| DA         | 3W3    | DAMP3C3S-JA197        | DAMC3C3S-JA197     | DAMP3C3S-VA197        | DAMC3C3S-VA197     | DAMMP3X3S-J           | DAMMC3X3S-J        | DAM3X3S-JNMBK52       |
| DA         | 3WK3   | DAMP3CK3S-JA197       | DAMC3CK3S-JA197    | DAMP3CK3S-VA197       | DAMC3CK3S-VA197    | DAMMP3XK3S-J          | DAMMC3XK3S-J       | DAM3XK3S-JNMBK52      |
| DB         | 5W5    | DBMP5C5S-JA197        | DBMC5C5S-JA197     | DBMP5C5S-VA197        | DBMC5C5S-VA197     | DBMMP5X5S-J           | DBMMC5X5S-J        | DBM5X5S-JNMBK52       |
| DB         | 9W4    | DBMP9C4S-JA197        | DBMC9C4S-JA197     | DBMP9C4S-VA197        | DBMC9C4S-VA197     | DBMMP9X4S-J           | DBMMC9X4S-J        | DBM9X4S-JNMBK52       |
| DB         | 13W3   | DBMP13C3S-JA197       | DBMC13C3S-JA197    | DBMP13C3S-VA197       | DBMC13C3S-VA197    | DBMMP13X3S-J          | DBMMC13X3S-J       | DBM13X3S-JNMBK52      |
| DB         | 17W2   | DBMP17C2S-JA197       | DBMC17C2S-JA197    | DBMP17C2S-VA197       | DBMC17C2S-VA197    | DBMMP17X2S-J          | DBMMC17X2S-J       | DBM17X2S-JNMBK52      |
| DB         | 21W1   | DBMP21C1S-JA197       | DBMC21C1S-JA197    | DBMP21C1S-VA197       | DBMC21C1S-VA197    | DBMMP21X1S-J          | DBMMC21X1S-J       | DBM21X1S-JNMBK52      |
| DC         | 8W8    | DCMP8C8S-JA197        | DCMC8C8S-JA197     | DCMP8C8S-VA197        | DCMC8C8S-VA197     | DCMMP8X8S-J           | DCMMC8X8S-J        | DCM8X8S-JNMBK52       |
| DC         | 13W6   | DCMP13C6S-JA197       | DCMC13C6S-JA197    | DCMP13C6S-VA197       | DCMC13C6S-VA197    | DCMMP13X6S-J          | DCMMC13X6S-J       | DCM13X6S-JNMBK52      |
| DC         | 17W5   | DCMP17C5S-JA197       | DCMC17C5S-JA197    | DCMP17C5S-VA197       | DCMC17C5S-VA197    | DCMMP17X5S-J          | DCMMC17X5S-J       | DCM17X5S-JNMBK52      |
| DC         | 21WA4  | DCMP21CA4S-JA197      | DCMC21CA4S-JA197   | DCMP21CA4S-VA197      | DCMC21CA4S-VA197   | DCMMP21XA4S-J         | DCMMC21XA4S-J      | DCM21XA4S-JNMBK52     |
| DC         | 25W3   | DCMP25C3S-JA197       | DCMC25C3S-JA197    | DCMP25C3S-VA197       | DCMC25C3S-VA197    | DCMMP25X3S-J          | DCMMC25X3S-J       | DCM25X3S-JNMBK52      |
| DC         | 27W2   | DCMP27C2S-JA197       | DCMC27C2S-JA197    | DCMP27C2S-VA197       | DCMC27C2S-VA197    | DCMMP27X2S-J          | DCMMC27X2S-J       | DCM27X2S-JNMBK52      |

\* For 50 ohm coaxial inserts replace C with X, e.g.:DCM13C6S-J becomes DCM13X6S-J. \*\*For M-3 and other hardware options, see Combo D Catalog.

\*\*\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D- Contact factory for more information

US version shown, for EU version please see Combo D Catalog.  
For 50 ohm coaxial version, see Combo D Catalog.



### Dimensions

| Shell size | A ± 0,38 (.015) | B ± 0,13 (.005) | C ± 0,13 (.005) | D ± 0,13 (.005) | E ± 0,38 (.015) | F ± 0,25 (.010) | W ± 0,38 (.015) | L ± 0,25 (.010) |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| DE         | 30,81 (1.213)   | 16,33 (.643)    | 24,99 (.984)    | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |
| DA         | 39,14 (1.541)   | 24,65 (.971)    | 33,32 (1.312)   | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |
| DB         | 53,04 (2.088)   | 38,38 (1.511)   | 47,04 (1.852)   | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |
| DC         | 69,32 (2.729)   | 54,84 (2.159)   | 63,50 (2.500)   | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon Combo D® Coax 90° PCB Receptacle DD Military/High Reliability

## Coaxial 90° PCB Receptacle, Size DD, with metal bracket

### Receptacle



- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog..

**INDUSTRIAL – US**  
75 Ohm\* coax inserted with  
US Footprint metal bracket  
and UNC 4-40 captive nut

**INDUSTRIAL – EU\*\***  
75 Ohm\* coax inserted with  
EU Footprint metal bracket  
and UNC 4-40 captive nut

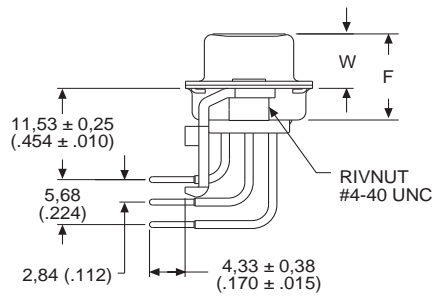
**MILITARY/HI-REL – US**  
75 Ohm\* coax inserted with  
US Footprint metal bracket  
and UNC 4-40 screw lock

**NON-MAGNETIC/LOW OUTGASSING – US\*\*\***  
75 Ohm\* coax inserted with  
US Footprint metal bracket  
and UNC 4-40 screw lock

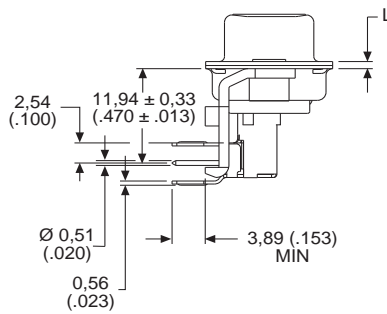
| Shell size | Layout | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N with Gold Plating |
|------------|--------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|
| DD         | 24W7   | DDMP24C7S-JA197       | DDMC24C7S-JA197    | DDMP24C7S-VA197       | DDMC24C7S-VA197    | DDMMD24X7S-J          | DDMMG24X2S-J       | DDM24X7S-JNMBK52      |
| DD         | 36W4   | DDMP36C4S-JA197       | DDMC36C4S-JA197    | DDMP36C4S-VA197       | DDMC36C4S-VA197    | DDMMD36X4S-J          | DDMMG36X1S-J       | DDM36X4S-JNMBK52      |
| DD         | 43W2   | DDMP43C2S-JA197       | DDMC43C2S-JA197    | DDMP43C2S-VA197       | DDMC43C2S-VA197    | DDMMD43X2S-J          | DDMMG43X2S-J       | DDM43X2S-JNMBK52      |
| DD         | 47W1   | DDMP47C1S-JA197       | DDMC47C1S-JA197    | DDMP47C1S-VA197       | DDMC47C1S-VA197    | DDMMD47X1S-J          | DDMMG47X1S-J       | DDM47X1S-JNMBK52      |

\* For 50 ohm coaxial inserts replace C with X, e.g.:DCM13C6 becomes DCM13X6S-JA197 \*\*For M-3 and other hardware options, see Combo D Catalog.

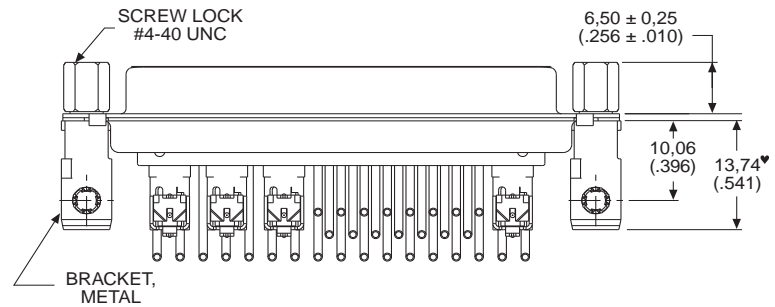
\*\*\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D- Contact factory for more information



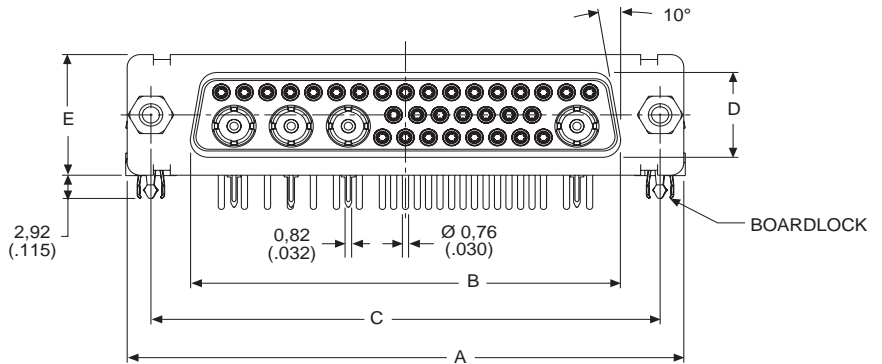
Screw lock, boardlock, and coaxial contacts removed for clarity



Screw lock, boardlock, and signal contacts removed for clarity



Engaging Face



Note: Dimension varies with alternate bracket configuration.

US version shown – for EU version, please see Combo D Catalog.  
For 50 ohm coaxial version, see Combo D Catalog.

### Dimensions

| Shell size | A             | B             | C             | D            | E            | F            | W           | L           |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|-------------|-------------|
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2,406) | 10,74 (.423) | 15,37 (.605) | 10,90 (.429) | 6,94 (.273) | 0,76 (.030) |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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# Cannon Combo D® High Power 90° PCB Plug DE-DC Military/High Reliability

## 40 A High power 90° PCB Plug, Sizes DE-DC, with metal bracket

### Plug

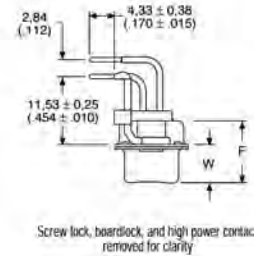
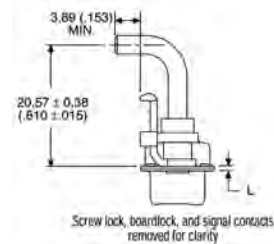
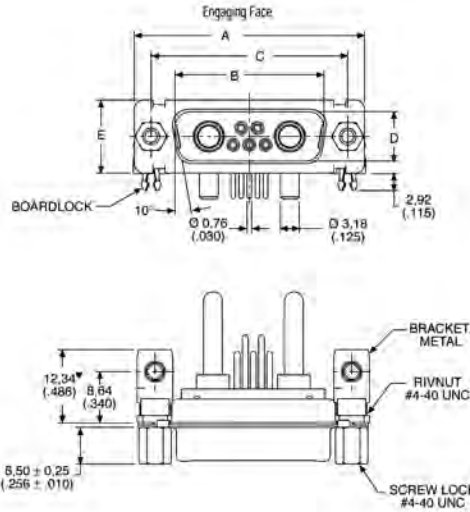


- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

|               |        | INDUSTRIAL – US<br>40 A High power inserted with<br>US footprint metal bracket<br>and UNC 4-40 captive nut |                       | INDUSTRIAL – EU<br>40 A High power inserted with<br>EU footprint metal bracket<br>and UNC 4-40 captive nut |                       | MILITARY/HI-REL – US<br>40 A High power inserted with<br>US footprint metal bracket<br>and UNC 4-40 screw lock |                       | NON-MAGNETIC/LOW OUTGASSING – US*<br>40 A High power inserted with<br>US footprint metal bracket<br>and UNC 4-40 screw lock |
|---------------|--------|--|-----------------------|--|-----------------------|--|-----------------------|---|
| Shell<br>size | Layout | P/N without<br>boardlock   | P/N with<br>boardlock | P/N without<br>boardlock   | P/N with<br>boardlock | P/N without<br>boardlock   | P/N with<br>boardlock | P/N with<br>Gold Plating  |
| DE            | 2W2    | DEMP2H2P-JK87  | DEMC2H2P-JK87         | DEMP2P2P-VK87  | DEMC2PK2P-VK87        | DEMMP2H2P-J  | DEMMP2H2P-J           | DEM2H2P-JNMBK52   |
| DE            | 2WK2   | DEMP2HK2P-JK87   | DEMC2HK2P-JK87        | DEMP2PK2P-VK87   | DEMC2PK2P-VK87        | DEMMP2HK2P-J   | DEMMP2HK2P-J          | DEM2HK2P-JNMBK52  |
| DE            | 5W1    | DEMP5H1P-JK87  | DEMC5H1P-JK87         | DEMP5P1P-VK87  | DEMC5P1P-VK87         | DEMMP5H1P-J  | DEMMP5H1P-J           | DEM5H1P-JNMBK52   |
| DA            | 7W2    | DAMP7H2P-JK87  | DAMC7H2P-JK87         | DAMP7P2P-VK87  | DAMC7P2P-VK87         | DAMMP7H2P-J  | DAMMP7H2P-J           | DAM7H2P-JNMBK52   |
| DA            | 11W1   | DAMP11H1P-JK87   | DAMC11H1P-JK87        | DAMP11P1P-VK87   | DAMC11P1P-VK87        | DAMMP11H1P-J   | DAMMP11H1P-J          | DAM11H1P-JNMBK52  |
| DA            | 3W3    | DAMP3H3P-JK87  | DAMC3H3P-JK87         | DAMP3P3P-VK87  | DAMC3P3P-VK87         | DAMMP3H3P-J  | DAMMP3H3P-J           | DAM3H3P-JNMBK52   |
| DA            | 3WK3   | DAMP3HK3P-JK87   | DAMC3HK3P-JK87        | DAMP3PK3P-VK87   | DAMC3PK3P-VK87        | DAMMP3HK3P-J   | DAMMP3HK3P-J          | DAM3HK3P-JNMBK52  |
| DB            | 5W5    | DBMP5H5P-JK87  | DBMC5H5P-JK87         | DBMP5P5P-VK87  | DBMC5P5P-VK87         | DBMMP5H5P-J  | DBMMP5H5P-J           | DBM5H5P-JNMBK52   |
| DB            | 9W4    | DBMP9H4P-JK87  | DBMC9H4P-JK87         | DBMP9P4P-VK87  | DBMC9P4P-VK87         | DBMMP9H4P-J  | DBMMP9H4P-J           | DBM9H4P-JNMBK52   |
| DB            | 13W3   | DBMP13H3P-JK87   | DBMC13H3P-JK87        | DBMP13P3P-VK87   | DBMC13P3P-VK87        | DBMMP13H3P-J   | DBMMP13H3P-J          | DBM13H3P-JNMBK52  |
| DB            | 17W2   | DBMP17H2P-JK87   | DBMC17H2P-JK87        | DBMP17P2P-VK87   | DBMC17P2P-VK87        | DBMMP17H2P-J   | DBMMP17H2P-J          | DBM17H2P-JNMBK52  |
| DB            | 21W1   | DBMP21H1P-JK87   | DBMC21H1P-JK87        | DBMP21P1P-VK87   | DBMC21P1P-VK87        | DBMMP21H1P-J   | DBMMP21H1P-J          | DBM21H1P-JNMBK52  |
| DC            | 8W8    | DCMP8H8P-JK87  | DCMC8H8P-JK87         | DCMP8P8P-VK87  | DCMC8P8P-VK87         | DCMMP8H8P-J  | DCMMP8H8P-J           | DCM8H8P-JNMBK52   |
| DC            | 13W6   | DCMP13H6P-JK87   | DCMC13H6P-JK87        | DCMP13P6P-VK87   | DCMC13P6P-VK87        | DCMMP13H6P-J   | DCMMP13H6P-J          | DCM13H6P-JNMBK52  |
| DC            | 17W5   | DCMP17H5P-JK87   | DCMC17H5P-JK87        | DCMP17P5P-VK87   | DCMC17P5P-VK87        | DCMMP17H5P-J   | DCMMP17H5P-J          | DCM17H5P-JNMBK52  |
| DC            | 21WA4  | DCMP21HA4P-JK87  | DCMC21HA4P-JK87       | DCMP21PA4P-VK87  | DCMC21PA4P-VK87       | DCMMP21HA4P-J  | DCMMP21HA4P-J         | DCM21HA4P-JNMBK52   |
| DC            | 25W3   | DCMP25H3P-JK87   | DCMC25H3P-VK87        | DCMP25P3P-VK87   | DCMC25P3P-VK87        | DCMMP25H3P-J   | DCMMP25H3P-J          | DCM25H3P-JNMBK52  |
| DC            | 27W2   | DCMP27H2P-JK87   | DCMC27H2P-VK87        | DCMP27P2P-VK87   | DCMC27P2P-VK87        | DCMMP27H2P-J   | DCMMP27H2P-J          | DCM27H2P-JNMBK52  |

\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D-; contact factory for more information

US version shown – for EU version, please see Combo D Catalog.



### Dimensions

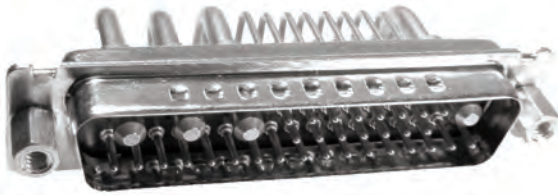
| Shell size | A<br>± 0,38 (.015) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,38 (.015) | F<br>± 0,25 (.010) | W<br>± 0,368 (.0145) | W<br>± 0,41 (.016) | L<br>± 0,25 (.010) |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| DE         | 30,81 (1.213)      | 16,92 (.665)       | 24,99 (.984)       | 8,36 (.329)        | 12,55 (.494)       | 10,72 (.422)       | 6,693 (.2635)        | —                  | 0,76 (.030)        |
| DA         | 39,14 (1.541)      | 25,25 (.994)       | 33,32 (1.312)      | 8,36 (.329)        | 12,55 (.494)       | 10,72 (.422)       | 6,693 (.2635)        | —                  | 0,76 (.030)        |
| DB         | 53,04 (2.088)      | 38,96 (1.534)      | 47,04 (1.852)      | 8,36 (.329)        | 12,55 (.494)       | 10,82 (.426)       | —                    | 6,84 (.269)        | 0,99 (.039)        |
| DC         | 69,32 (2.729)      | 55,42 (2.182)      | 63,50 (2.500)      | 8,36 (.329)        | 12,55 (.494)       | 10,82 (.426)       | —                    | 6,84 (.269)        | 0,99 (.039)        |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon Combo D® High Power 90° PCB Plug DD Military/High Reliability

## 40 A High power 90° PCB Plug, Size DD, with metal bracket

### Plug

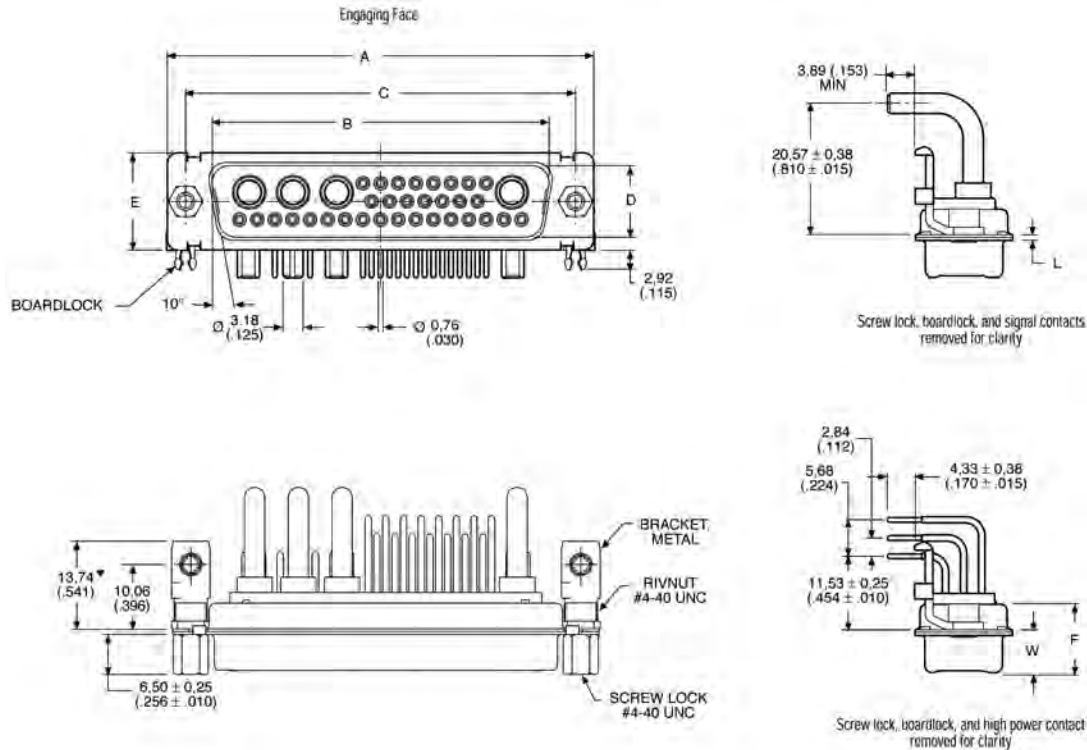


- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

### 40 A High power inserted with US footprint metal bracket and UNC 4-40 captive nut

| Shell size | Layout | INDUSTRIAL            |                    | MILITARY/HI-REL       |                        | NON-MAGNETIC/LOW OUTGASSING* |
|------------|--------|-----------------------|--------------------|-----------------------|------------------------|------------------------------|
|            |        | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with UNC Boardlock | P/N with Gold Plating        |
| DD         | 24WK7  | DDMP24H7P-JK87        | DDMC24H7P-JK87     | DDMMP24H7P-J          | DDMMC24H7P-J           | DDM24H7P-JNMBK52             |
| DD         | 36W4   | DDMP36H4P-JK87        | DDMC36H4P-JK87     | DDMMP36H4P-J          | DDMMC36H4P-J           | DDM36H7P-JNMBK52             |
| DD         | 43W2   | DDMP43H2P-JK87        | DDMC43H2P-JK87     | DDMMP43H2P-J          | DDMMC43H2P-J           | DDM43H7P-JNMBK52             |
| DD         | 47W1   | DDMP47H1P-JK87        | DDMC47H1P-JK87     | DDMMP47H1P-J          | DDMMC47H1P-J           | DDM47H7P-JNMBK52             |

\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D; contact factory for more information



### Dimensions

| Shell size | A             | B             | C             | D             | E             | F             | W             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| DD         | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,41 (.015) | ± 0,25 (.010) |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436)  | 15,37 (.605)  | 10,82 (.426)  | 6,84 (.269)   | 0,99 (.039)   |



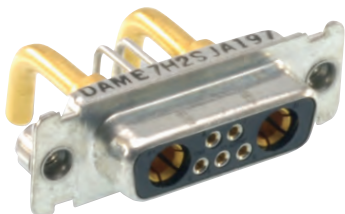
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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# Cannon Combo D® High Power 90° PCB Receptacle DE-DC Military/High Reliability

## 40 A High power 90° PCB Receptacle, Sizes DE-DC, with metal bracket

### Receptacle



- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

**INDUSTRIAL – US**  
40 A High power inserted with US footprint metal bracket and UNC 4-40 captive nut

**INDUSTRIAL – EU**  
40 A High power inserted with EU footprint metal bracket and UNC 4-40 captive nut

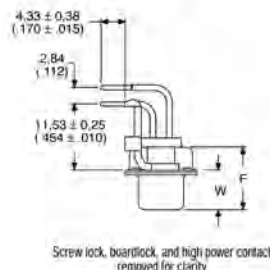
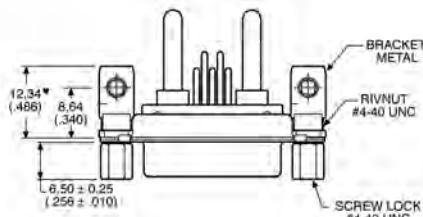
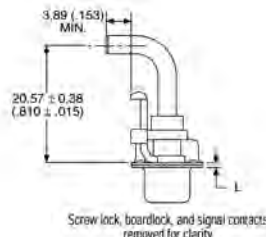
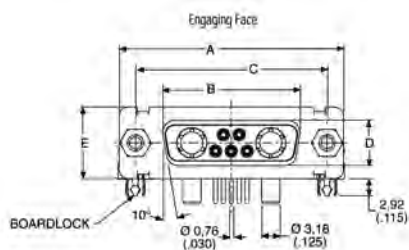
**MILITARY/HI-REL – US**  
40 A High power inserted with US footprint metal bracket and UNC 4-40 captive nut

**NON-MAGNETIC/LOW OUTGASSING – US\***  
40 A High power inserted with US footprint metal bracket and UNC 4-40 screw lock

| Shell size | Layout | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with Boardlock | P/N with Gold Plating |
|------------|--------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|
| DE         | 2W2    | DEMP2H2S-VA197        | DEMC2H2S-VA197     | DEMP2P2S-JA197        | DEMC2P2S-JA197     | DEMMP2H2S-V           | DEMMP2H2S-V        | DEM2H2S-VNMBK52       |
| DE         | 2WK2   | DEMP2HK2S-VA197       | DEMC2HK2S-VA197    | DEMP2PK2S-JA197       | DEMC2PK2S-JA197    | DEMMP2HK2S-V          | DEMMP2HK2S-V       | DEM2HK2S-VNMBK52      |
| DE         | 5W1    | DEMP5H1S-VA197        | DEMC5H1S-VA197     | DEMP5P1S-JA197        | DEMC5P1S-JA197     | DEMMP5H1S-V           | DEMMP5H1S-V        | DEM5H1S-VNMBK52       |
| DA         | 7W2    | DAMP7H2S-VA197        | DAMC7H2S-VA197     | DAMP7P2S-JA197        | DAMC7P2S-JA197     | DAMMP7H2S-V           | DAMMP7H2S-V        | DAM7H2S-VNMBK52       |
| DA         | 11W1   | DAMP11H1S-VA197       | DAMC11H1S-VA197    | DAMP11P1S-JA197       | DAMC11P1S-JA197    | DAMMP11H1S-V          | DAMMP11H1S-V       | DAM11H1S-VNMBK52      |
| DA         | 3W3    | DAMP3H3S-VA197        | DAMC3H3S-VA197     | DAMP3P3S-JA197        | DAMC3P3S-JA197     | DAMMP3H3S-V           | DAMMP3H3S-V        | DAM3H3S-VNMBK52       |
| DA         | 3WK3   | DAMP3HK3S-VA197       | DAMC3HK3S-VA197    | DAMP3PK3S-JA197       | DAMC3PK3S-JA197    | DAMMP3HK3S-V          | DAMMP3HK3S-V       | DAM3HK3S-VNMBK52      |
| DB         | 5W5    | DBMP5H5S-VA197        | DBMC5H5S-VA197     | DBMP5P5S-JA197        | DBMC5P5S-JA197     | DBMMP5H5S-V           | DBMMP5H5S-V        | DBM5H5S-VNMBK52       |
| DB         | 9W4    | DBMP9H4S-VA197        | DBMC9H4S-VA197     | DBMP9P4S-JA197        | DBMC9P4S-JA197     | DBMMP9H4S-V           | DBMMP9H4S-V        | DBM9H4S-VNMBK52       |
| DB         | 13W3   | DBMP13H3S-VA197       | DBMC13H3S-VA197    | DBMP13P3S-JA197       | DBMC13P3S-JA197    | DBMMP13H3S-V          | DBMMP13H3S-V       | DBM13H3S-VNMBK52      |
| DB         | 17W2   | DBMP17H2S-VA197       | DBMC17H2S-VA197    | DBMP17P2S-JA197       | DBMC17P2S-JA197    | DBMMP17H2S-V          | DBMMP17H2S-V       | DBM17H2S-VNMBK52      |
| DB         | 21W1   | DBMP21H1S-VA197       | DBMC21H1S-VA197    | DBMP21P1S-JA197       | DBMC21P1S-JA197    | DBMMP21H1S-V          | DBMMP21H1S-V       | DBM21H1S-VNMBK52      |
| DC         | 8W8    | DCMP8H8S-VA197        | DCMC8H8S-VA197     | DCMP8P8S-JA197        | DCMC8P8S-JA197     | DCMMP8H8S-V           | DCMMP8H8S-V        | DCM8H8S-VNMBK52       |
| DC         | 13W6   | DCMP13H6S-VA197       | DCMC13H6S-VA197    | DCMP13P6S-JA197       | DCMC13P6S-JA197    | DCMMP13H6S-V          | DCMMP13H6S-V       | DCM13H6S-VNMBK52      |
| DC         | 17W5   | DCMP17H5S-VA197       | DCMC17H5S-VA197    | DCMP17P5S-JA197       | DCMC17P5S-JA197    | DCMDMP17H5S-V         | DCMDMP17H5S-V      | DCM17H5S-VNMBK52      |
| DC         | 21WA4  | DCMP21HA4S-VA197      | DCMC21HA4S-VA197   | DCMP21PA4S-JA197      | DCMC21PA4S-JA197   | DCMMP21HA4S-V         | DCMMP21HA4S-V      | DCMG21HA4S-VNMBK52    |
| DC         | 25W3   | DCMP25H3S-VA197       | DCMC25H3S-VA197    | DCMP25P3S-JA197       | DCMC25P3S-JA197    | DCMMP25H3S-V          | DCMMP25H3S-V       | DCM25H3S-VNMBK52      |
| DC         | 27W2   | DCMP27H2S-VA197       | DCMC27H2S-VA197    | DCMP27P2S-JA197       | DCMC27P2S-JA197    | DCMMP27H2S-V          | DCMMP27H2S-V       | DCM27H2S-VNMBK52      |

\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D; contact factory for more information

US version shown – for EU version, please see Combo D Catalog.



### Dimensions

| Shell size | A ± 0,38 (.015) | B ± 0,13 (.005) | C ± 0,13 (.005) | D ± 0,13 (.005) | E ± 0,38 (.015) | F ± 0,25 (.010) | W ± 0,38 (.015) | L ± 0,25 (.010) |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| DE         | 30,81 (1.213)   | 16,33 (.643)    | 24,99 (.984)    | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |
| DA         | 39,14 (1.541)   | 24,65 (.971)    | 33,32 (1.312)   | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |
| DB         | 53,04 (2.088)   | 38,38 (1.511)   | 47,04 (1.852)   | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |
| DC         | 69,32 (2.729)   | 54,84 (2.159)   | 63,50 (2.500)   | 7,90 (.311)     | 12,55 (.494)    | 10,90 (.429)    | 6,94 (.273)     | 0,76 (.030)     |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# Cannon Combo D® High Power 90° PCB Receptacle DD Military/High Reliability

## 40 A High power 90° PCB Receptacle, Size DD, with metal bracket

Plug

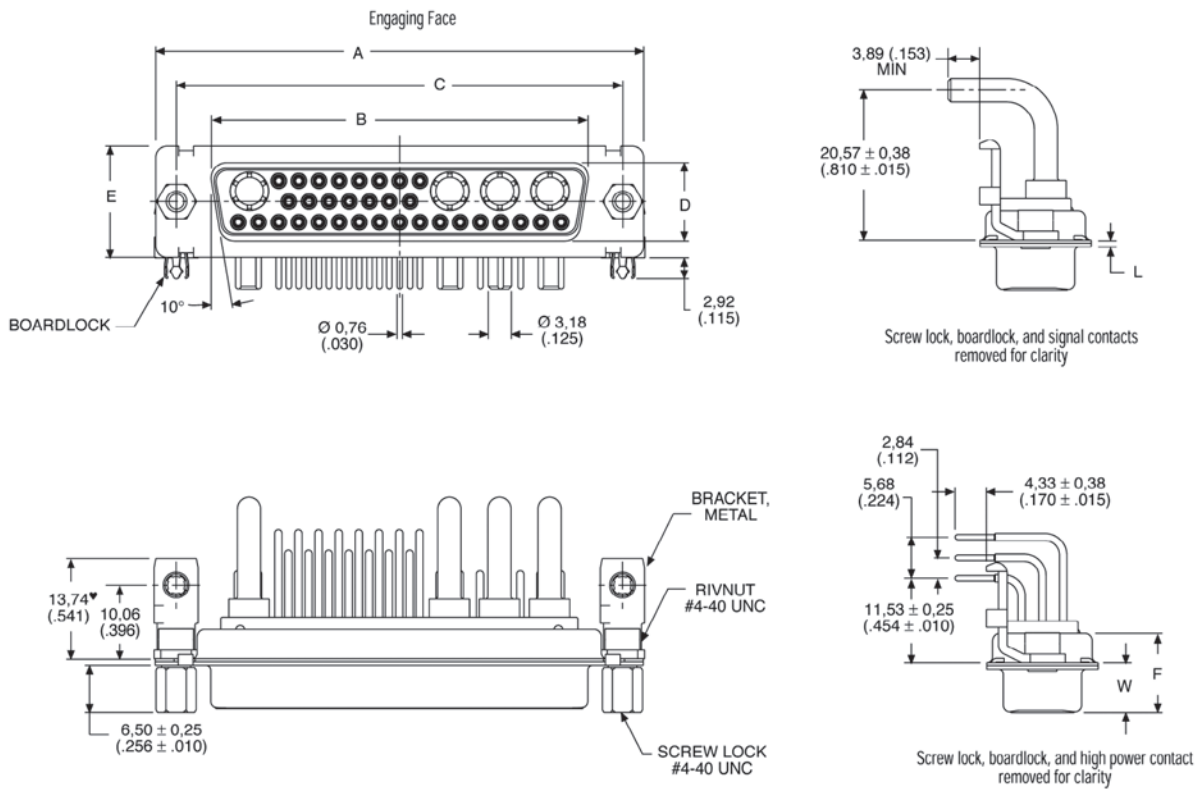


- For contact cavity arrangements, see page C-43.
- For pcb hole pattern, see Combo D Catalog.

### 40 A High power inserted with US footprint metal bracket and UNC 4-40 captive nut

| Shell size | Layout | INDUSTRIAL            |                    | MILITARY/HI-REL       |                        | NON-MAGNETIC/LOW OUTGASSING* |
|------------|--------|-----------------------|--------------------|-----------------------|------------------------|------------------------------|
|            |        | P/N without Boardlock | P/N with Boardlock | P/N without Boardlock | P/N with UNC Boardlock | P/N with Gold Plating        |
| DD         | 24WK7  | DDMP24H7S-JA197       | DDMC24H7S-JA197    | DDMMP24H7S-J          | DDMMC24H7S-J           | DDM24H7S-JNMBK52             |
| DD         | 36W4   | DDMP36H4S-JA197       | DDMC36H4S-JA197    | DDMMP36H4S-J          | DDMMC36H4S-J           | DDM36H4S-JNMBK52             |
| DD         | 43W2   | DDMP43H2S-JA197       | DDMC43H2S-JA197    | DDMMP43H2S-J          | DDMMC43H2S-J           | DDM43H2S-JNMBK52             |
| DD         | 47W1   | DDMP47H1S-JA197       | DDMC47H1S-JA197    | DDMMP47H1S-J          | DDMMC47H1S-J           | DDM47H1S-JNMBK52             |

\* Hardware Modifier not allowed with Non Magnetic/ Low Outgassing Combo-D; contact factory for more information



### Dimensions

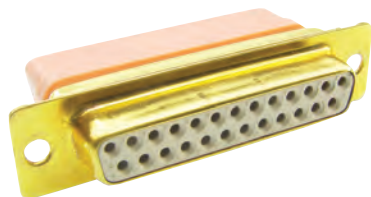
| Shell size | A             | B             | C             | D             | E             | F             | W             | L             |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| DD         | ± 0,38 (.015) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,13 (.005) | ± 0,38 (.015) | ± 0,25 (.010) | ± 0,38 (.015) | ± 0,25 (.010) |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423)  | 15,37 (.605)  | 10,90 (.429)  | 6,94 (.273)   | 0,76 (.030)   |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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Grommet D



- Environmental Protection
- MIL-C-4308 Compatibility
- Reliability and Versatility

GD\* connectors are ideal for aerospace, military, telecommunications and other applications requiring protection and high reliability.

ITT Cannon developed GD\* connectors to meet the needs of the avionics industry. These connectors provide high-density and moisture protection.

Environmental protection is accomplished by the resilient grommet, interfacial seal, and bonded connector components.

Performance and Material Specifications

MATERIALS AND FINISHES

|                      | Materials                            | Finishes  |
|----------------------|--------------------------------------|---|
| Shell                | Low carbon steel per ASTM-A-620      | Yellow chromate over cadmium per QQ-P-415, Type II, Class 2   |
| Contacts             | Copper alloy                         | Standard finish: Gold over nickel<br>Military finish: Gold 50 microinches thickness per MIL-G-45204, Type II, Grade C, Class 1, over copper per MIL-C-14550 |
| Float Mount Hardware | Stainless Steel                      | Passivated per QQ-P-35  |
| Grommets and Seals   | Silicone elastomer or Fluorosilicone |   |
| Bonding Material     | Epoxy                                |   |

MECHANICAL FEATURES

Wire Accommodation – Contact: #20, #22, #24 AWG.

Wire O.D. .071 (1.80) maximum, .038 (0.97) minimum.

Contact Retention – 9 lbs. minimum (40N) after 10 insertions

ELECTRICAL DATA

Test voltage AC RMS 60 Hz

|                   | Sea Level | 20,000 Ft. | 50,000 Ft. | 70,000 Ft. |
|-------------------|-----------|------------|------------|------------|
| Average Flashover | 1,000     | 1,000      | 500        | 500        |
| Test              | 1,000     | 650        | 325        | 325        |

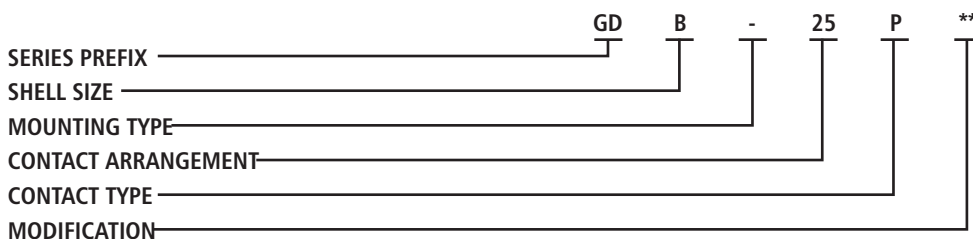
Maximum Current Carrying Capacity of Contacts – #20 Contacts: 5 Amps

Temperature Range – -65°C to +150°C (-53.9°F to +302°F)

How to Order

SERIES PREFIX  
GD – Grommet D

SHELL SIZE  
E, A, B, C, D



**MOUNTING TYPE**  
No designator – .120 (3.05) Diameter Mounting Holes

Y – Float Mount for Rear and Front Panel Mounting

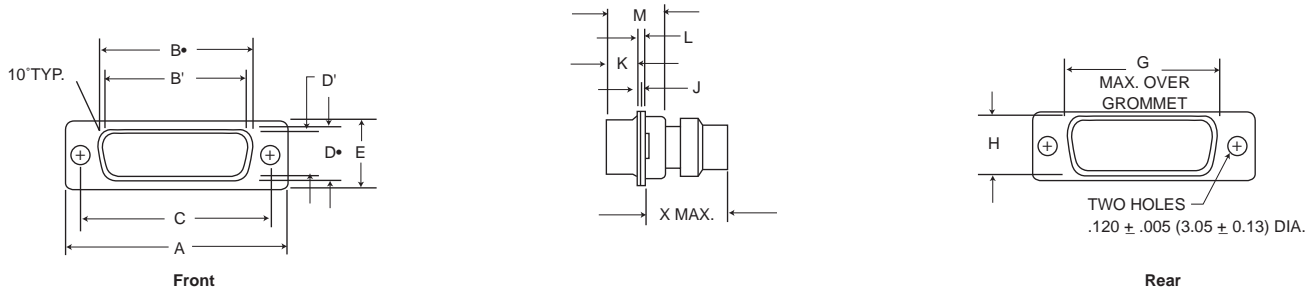
**CONTACT ARRANGEMENTS**  
Std. Density 9, 15, 25, 37 and 50  
Hi Density 15, 26, 44, 62, 78

**CONTACT TYPE**  
P – Pin, crimp termination  
S – Socket, crimp termination

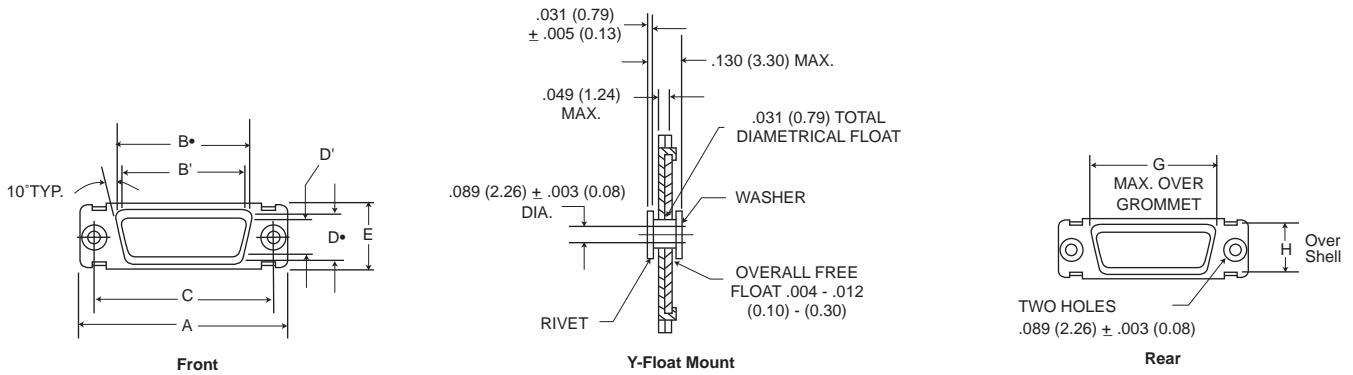
**MODIFICATIONS (Typical Modifiers)**  
FO – Connectors supplied Less Contacts

See D\*MA modifiers, page C-8.

Standard Shell Dimensions



Shell with Float Dimensions



It is recommended that only one assembly, either pin or socket, be float mounted. For front panel mounting use reverse float mounted.

| Shell Size | A<br>±.015<br>(0.38) | B*<br>±.005<br>(0.13) | B'<br>±.005<br>(0.13) | C<br>±.005<br>(0.12) | D*<br>±.005<br>(0.13) | D'<br>±.005<br>(0.12) | E<br>±.015<br>(0.38) | G<br>Max.     | H<br>±.010<br>(0.25) | J<br>±.010<br>(0.25) | K<br>±.006<br>(0.13) | L<br>±.010<br>(0.25) | M<br>±.085<br>(0.13) | X<br>Max.    |
|------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------|
| GDE-9P     | 1.213 (30.81)        | —                     | .666 (16.91)          | .984 (24.99)         | —                     | .329 (8.36)           | .494 (12.55)         | .750 (19.05)  | .422 (10.72)         | .030 (0.76)          | .235 (5.97)          | .045 (1.14)          | .422 (10.72)         | .718 (18.24) |
| GDE-9S     | 1.213 (30.81)        | .643 (16.33)          | —                     | .984 (24.99)         | .311 (7.90)           | —                     | .494 (12.55)         | .750 (19.05)  | .422 (10.72)         | .030 (0.76)          | .243 (6.17)          | .045 (1.14)          | .429 (10.90)         | .718 (18.24) |
| GDA-15P    | 1.541 (39.14)        | —                     | .994 (25.24)          | 1.312 (33.32)        | —                     | .329 (8.36)           | .494 (12.55)         | 1.093 (27.76) | .422 (10.72)         | .030 (0.76)          | .235 (5.97)          | .045 (1.14)          | .422 (10.72)         | .718 (18.24) |
| GDA-15S    | 1.541 (39.14)        | .971 (24.66)          | —                     | 1.312 (33.32)        | .311 (7.90)           | —                     | .494 (12.55)         | 1.093 (27.76) | .422 (10.72)         | .030 (0.76)          | .243 (6.17)          | .045 (1.14)          | .429 (10.90)         | .718 (18.24) |
| GDB-25P    | 2.088 (53.03)        | —                     | 1.534 (38.96)         | 1.852 (47.04)        | —                     | .329 (8.36)           | .494 (12.55)         | 1.625 (41.28) | .422 (10.72)         | .039 (0.99)          | .230 (5.84)          | .060 (1.52)          | .426 (10.82)         | .718 (18.24) |
| GDB-25S    | 2.088 (53.03)        | 1.511 (38.38)         | —                     | 1.852 (47.04)        | .311 (7.90)           | —                     | .494 (12.55)         | 1.625 (41.28) | .422 (10.72)         | .030 (0.76)          | .243 (6.17)          | .045 (1.14)          | .429 (10.90)         | .718 (18.24) |
| GD-37P     | 2.729 (19.32)        | —                     | 2.182 (55.42)         | 2.50 (63.50)         | —                     | .329 (8.36)           | .494 (12.55)         | 2.270 (57.66) | .422 (10.72)         | .039 (0.99)          | .230 (5.84)          | .060 (1.52)          | .426 (10.82)         | .718 (18.24) |
| GD-37S     | 2.729 (19.32)        | 2.159 (54.84)         | —                     | 2.50 (63.50)         | .311 (7.90)           | —                     | .494 (12.55)         | 2.270 (57.66) | .422 (10.72)         | .030 (0.76)          | .243 (6.17)          | .045 (1.14)          | .429 (10.90)         | .718 (18.24) |
| GDD-50P    | 2.635 (66.92)        | —                     | 2.079 (52.81)         | 2.406 (61.11)        | —                     | .411 (11.20)          | .605 (15.37)         | 2.162 (54.91) | .534 (13.56)         | .039 (0.99)          | .230 (5.84)          | .060 (1.52)          | .426 (10.82)         | .718 (18.24) |
| GDD-50S    | 2.635 (66.92)        | 2.064 (52.42)         | —                     | 2.406 (61.11)        | .423 (10.74)          | —                     | .605 (15.37)         | 2.162 (54.91) | .534 (13.56)         | .030 (0.76)          | .243 (6.17)          | .045 (1.14)          | .429 (10.90)         | .718 (18.24) |

\*dimensions B, D, and H are measured as outside dimensions at the bottom of draw.

**NOTE:** B\* and D\* are the outside dimensions for socket side, B' and D' are the inside dimensions for pin side.  
High Density Layouts available.

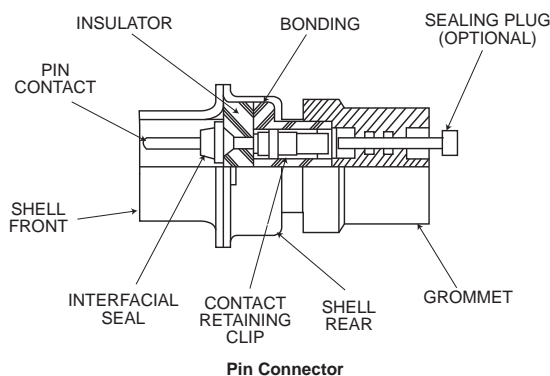
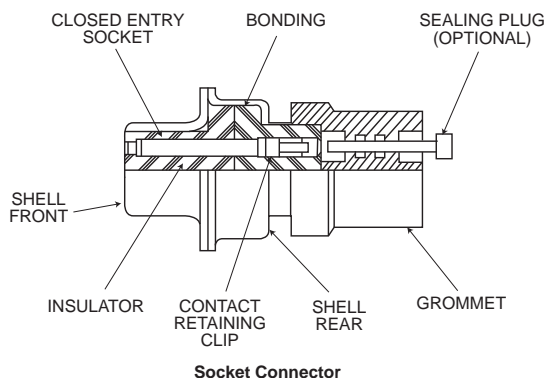
## Test Data

GD\* connectors meet all applicable requirements of MIL-C-24308. The following are excerpts from ITT Cannon Test Cannon Test Report C82-78 applicable to environmental D-Subminiature GD\* series connectors. Refer to MIL-C- 24308 Test Extracts on page 385.

| Test Description   | Test Method   | Results   |
|--------------------|---|---|
| Moisture Resistant | MIL-STD-1344<br>Method 1002.1 Type II   | <ol style="list-style-type: none"> <li>1. No deterioration of performance.</li> <li>2. Insulation resistance greater than 100 megaohms.</li> <li>3. No evidence of flashover or breakdown during 1000 VAC DWV testing.</li> </ol> |
| Fluid Immersion    | 20 hours immersion in hydraulic fluid per MIL-L-23699.  | <ol style="list-style-type: none"> <li>1. No detrimental damage.</li> <li>2. Able to meet requirements of mating and unmating test.</li> </ol>  |
| Immersion          | Two hours immersion in tap water at a depth of 36.00 (914.40) in mated condition, per MIL-STD 810, Method 512, Procedure 1. | While still immersed, the mated connectors exceeded 100 megaohm insulator resistance and exhibited no evidence of breakdown or flashover during 1000 VAC (RMS) DWV testing.   |

## Design Features

- Resilient silicone grommets for wire sealing
- Interfacial seals
- Closed-entry socket contacts
- Bonded components to prevent moisture
- Uses M39029 type contacts and termination tooling
- Intermateable with most M24308 type connectors
- Rear-release crimp contacts
- LITTLE CAESAR® contact retention assembly
- Optional sealing plugs, ITT Cannon part number



Note: Crimp Contacts: See page C-13

D\*D



The Cannon D\*D Environmental Series is designed to meet the demand for subminiature rectangular plugs with superior vibration and moisture resistance characteristics for aircraft, missile, and ground support equipment applications.

Featuring a rugged aluminum shell and peripheral seal, the D\*D connector meets all applicable requirements of MIL-C-24308. Available in both sol-

der and crimp versions, all assemblies are provided with nylon potting cups and dust caps. Solder type contacts are non-removable and are factory-installed. Crimp type connectors utilize the field-proven LITTLE CAESAR® rear insertion, rear-release retention system.

**PLEASE NOTE: The D\*D Series is not intermateable with other D Subminiature connectors.**

Performance and Material Specifications

|                                 |  |
|---------------------------------|--|
| Shell                           | Aluminum, cadmium plated with yellow chromate supplementary coating.   |
| Contacts                        | Solder pot: Copper alloy, gold plated .00002 (.0005) over nickel .00004 (.0010)<br>Crimp type: Copper alloy, gold plated .00002 (.0005) over nickel .00004 (.0010) |
| Contact Termination             | Solder pot accommodating up to #20 AWG stranded wire. Crimp type accommodating #20, #22, and #24 AWG stranded wire.  |
| Socket Type                     | Closed entry   |
| Float Mounting Rivets & Washers | Stainless Steel. Passivated per DQ-P-35  |

Test Data

Specifications

|   |  |
|---|--|
| Voltage Rating                          | All voltage figures are AC (rms), 60 Hz measured at approximately 25.0°C 50% RH.   |
| Insulation Resistance (per MIL-C-24308) | Greater than 5,000 megohms, determined in accordance with MIL-STD-202A, Method 302   |
| Contact Voltage Drop                    | 2.67 millivolts, maximum, per amp  |
| Contact Separation Force                | 1 to 8 ounces when tested in accordance with MIL-C-24308   |
| Air Leakage                             | When properly wired and potted, 1 cubic inch of air per hour max. when subjected to 30 PSI pressure differential in accordance with MIL-C-50150, Paragraph 4.5.3.1 |
| Vibration (per MIL-C-24308)             | Exceeds test requirements of MIL-STD-202A, Method 204, Condition D   |
| Corrosion Resistance (per MIL-C-24308)  | Exceeds requirements of 50 hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B   |
| Moisture Resistance (per MIL-C-24308)   | Exceeds requirements of MIL-STD-202A, Method 106   |
| Shock                                   | Exceeds requirements of MIL-STD-202A, Method 213, Condition G  |
| Environmental Seal                      | Effective from full engagement to 1/16 short of full engagement  |
| Contact Retention Force                 | (Crimp type) 8 pounds (35.6 newtons) minimum for first cycle; 5 pounds (22.2 newtons) minimum after tenth cycle  |
| Standard Layout Plugs                   | Measured from contact-to-contact, and contact-to-shell in unmated condition  |

ALTITUDE (FEET)

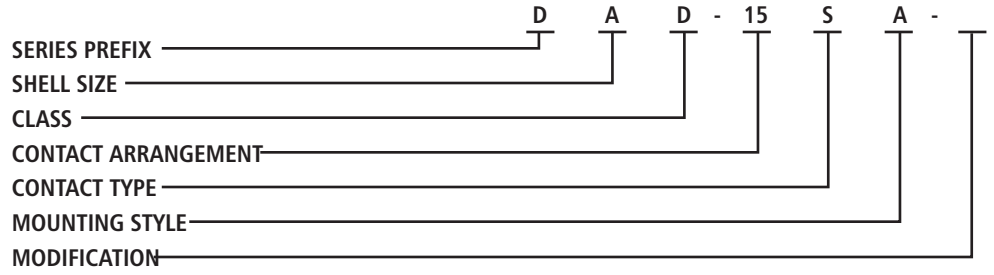
|                   | Sea Level | 20,000 | 50,000 | 70,000 |
|-------------------|-----------|--------|--------|--------|
| Average Flashover | 1700      | 1000   | 650    | 500    |
| Test              | 1250      | 750    | 475    | 375    |

D Sub



How to Order

Solder Cup Terminals



**SERIES PREFIX**  
ITT Cannon Designation

**SHELL SIZE**  
A, B, C, D, E

**CONTACT TYPE**  
P – Pin  
S – Socket

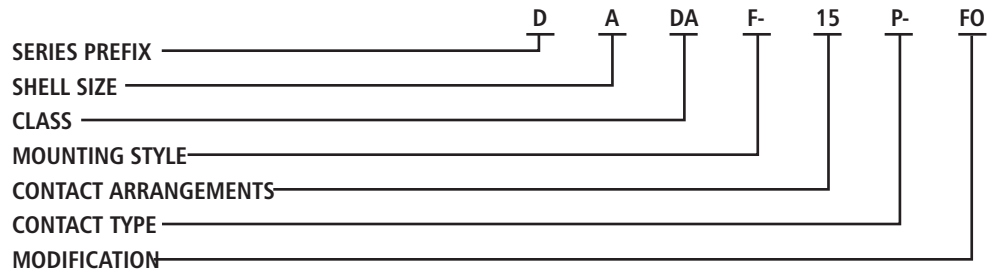
**CLASS**  
D – Environmental

**MOUNTING STYLE**  
A – Standard Mounting Holes  
B – Float Mounts supplied

**CONTACT ARRANGEMENT**  
9, 15, 25, 37, 50 Std Density  
Combo-D Layouts also available

**MODIFICATION**  
Contact factory

Snap-In Crimp Terminals



**SERIES PREFIX**  
ITT Cannon Designation

**SHELL SIZE**  
A, B, C, D, E

**CONTACT ARRANGEMENTS**  
9, 15, 25, 37, 50 Std Density  
15, 26, 44, 62, 88 Hi Density  
Combo-D Layouts also available

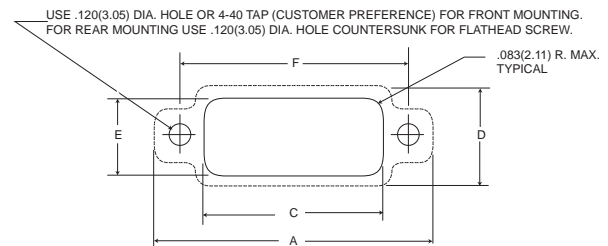
**CLASS**  
DA – Environmental, crimp type

**CONTACT TYPE**  
P – Pin  
S – Socket

**MOUNTING STYLE**  
No Designator – Standard mounting  
F – Float mounts supplied

**MODIFICATION**  
FO – Connector supplied less contacts, for other modifications consult factory

Panel Cutouts



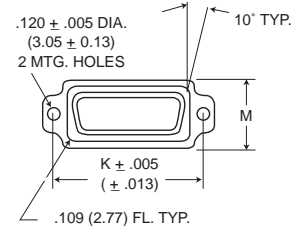
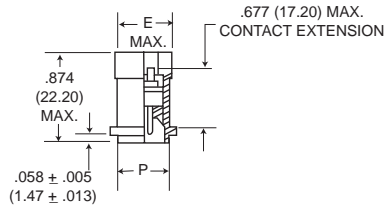
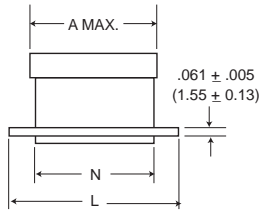
Add .032 (0.81) to dimensions C and E for float mounting.  
Note: Panel cutout does not allow for potting cup clearance.

| Shell Size | A<br>±.010 (0.25) | C<br>Min.     | D<br>±.010 (0.25) | E<br>±.010 (0.25) | F<br>±.010 (0.25) |
|------------|-------------------|---------------|-------------------|-------------------|-------------------|
| DED-15     | 1.442 (36.63)     | .839 (21.31)  | .614 (15.60)      | .497 (12.62)      | 1.125 (28.58)     |
| DAD-26     | 1.755 (44.58)     | 1.157 (29.39) | .614 (15.60)      | .497 (12.62)      | 1.437 (36.50)     |
| DBD-44     | 2.295 (58.29)     | 1.697 (43.10) | .614 (15.60)      | .497 (12.62)      | 1.993 (50.62)     |
| DCD-62     | 2.937 (74.60)     | 2.357 (59.87) | .614 (15.60)      | .497 (12.62)      | 2.625 (66.68)     |
| DDD-78     | 2.859 (72.62)     | 2.265 (57.53) | .735 (18.67)      | .610 (15.49)      | 2.531 (64.29)     |

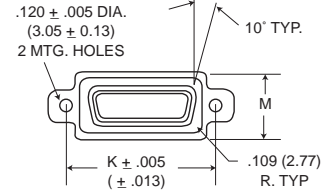
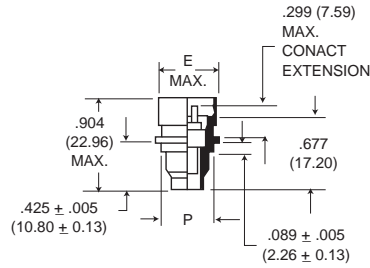
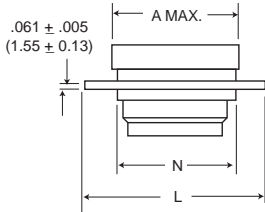
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

**Shell Dimensions, Standard Mount**

**Receptacle**

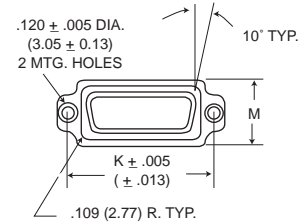
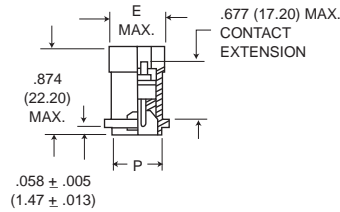
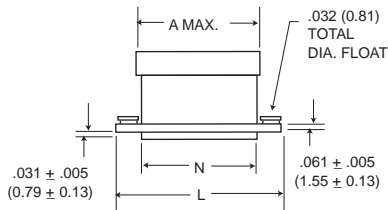


**Plug**

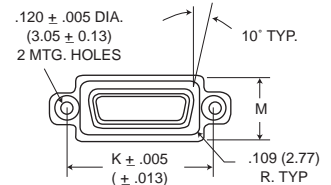
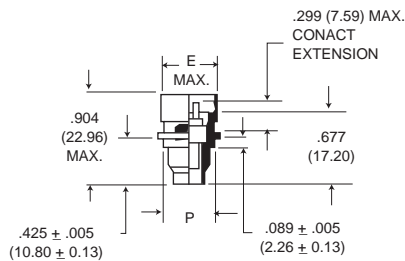
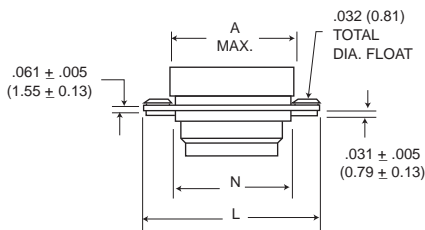


**Float Mount Dimensions**

**Receptacle**



**Plug**



**NOTE:** All D\*D Environmental plugs and receptacles are provided with dust caps and removable potting caps.

|              | A             | E            | K             | L             | M            | N             | P            |
|--------------|---------------|--------------|---------------|---------------|--------------|---------------|--------------|
| Shell Size   | Max.          | Max.         | ±.005 (0.13)  | ±.010 (0.25)  | ±.010 (0.25) | ±.010 (0.25)  | ±.010 (0.25) |
| DED-9P, 15P  | .915 (23.24)  | .596 (15.14) | 1.125 (28.58) | 1.442 (36.63) | .614 (15.60) | .825 (20.86)  | .483 (12.27) |
| DED-9S, 15S  | .915 (23.24)  | .596 (15.14) | 1.125 (28.58) | 1.442 (36.63) | .614 (15.60) | .825 (20.86)  | .483 (12.27) |
| DAD-15P, 26P | 1.233 (31.32) | .596 (15.14) | 1.437 (36.50) | 1.755 (44.58) | .614 (15.60) | 1.143 (29.03) | .483 (12.27) |
| DAD-15S, 26S | 1.233 (31.32) | .596 (15.14) | 1.437 (36.50) | 1.755 (44.58) | .614 (15.60) | 1.143 (29.03) | .483 (12.27) |
| DBD-25P, 44P | 1.786 (45.36) | .596 (15.14) | 1.993 (50.62) | 2.295 (58.29) | .614 (15.60) | 1.683 (42.75) | .483 (12.27) |
| DBD-25S, 44S | 1.786 (45.36) | .596 (15.14) | 1.993 (50.62) | 2.295 (58.29) | .614 (15.60) | 1.683 (42.75) | .483 (12.27) |
| DCD-37P, 62P | 2.458 (62.43) | .567 (14.40) | 2.625 (66.68) | 2.937 (74.60) | .614 (15.60) | 2.343 (59.51) | .483 (12.27) |
| DCD-37S, 62S | 2.458 (62.43) | .567 (14.40) | 2.625 (66.68) | 2.937 (74.60) | .614 (15.60) | 2.343 (59.51) | .483 (12.27) |
| DDD-50P, 78P | 2.390 (60.71) | .680 (17.12) | 2.531 (64.29) | 2.859 (72.62) | .735 (18.67) | 2.251 (57.18) | .596 (15.14) |
| DDD-50S, 78S | 2.390 (60.71) | .680 (17.12) | 2.531 (64.29) | 2.859 (72.62) | .735 (18.67) | 2.251 (57.18) | .596 (15.14) |

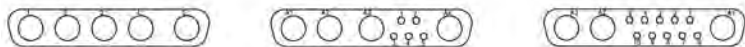
All tolerances are ±.010 (0.25) unless noted otherwise.



Contact Cavity Arrangements

Plug  
Face View Pin Insert  
(Use a mirror image for receptacle).

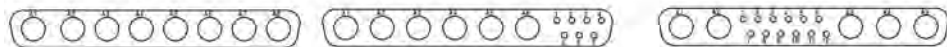
|                         |      |      |      |      |      |      |       |
|-------------------------|------|------|------|------|------|------|-------|
| Shell Size              | E    | E    | E    | A    | A    | A    | A     |
| Contact Arrangement     | 2W2  | 2WK2 | 5W1  | 3W3  | 3WK3 | 7W2  | 11W1  |
| No. of Size 20 Cavities | 0#20 | 0#20 | 4#20 | 0#20 | 0#20 | 5#20 | 10#20 |
| No. of Size 8 Cavities  | 2#8  | 2#8  | 1#8  | 3#8  | 3#8  | 2#8  | 1#8   |



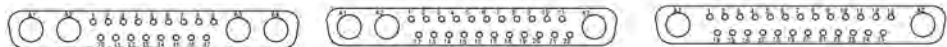
|                         |      |      |       |
|-------------------------|------|------|-------|
| Shell Size              | B    | B    | B     |
| Contact Arrangement     | 5W4  | 9W4  | 13W3  |
| No. of Size 20 Cavities | 0#20 | 5#20 | 10#20 |
| No. of Size 8 Cavities  | 5#8  | 4#8  | 3#8   |



|                         |       |       |
|-------------------------|-------|-------|
| Shell Size              | B     | B     |
| Contact Arrangement     | 17W2  | 21W1  |
| No. of Size 20 Cavities | 15#20 | 20#20 |
| No. of Size 8 Cavities  | 2#8   | 1#8   |



|                         |      |      |       |
|-------------------------|------|------|-------|
| Shell Size              | C    | C    | C     |
| Contact Arrangement     | 8W8  | 13W6 | 17W5  |
| No. of Size 20 Cavities | 0#20 | 7#20 | 12#20 |
| No. of Size 8 Cavities  | 8#8  | 6#8  | 5#8   |



|                         |       |       |       |
|-------------------------|-------|-------|-------|
| Shell Size              | C     | C     | C     |
| Contact Arrangement     | 21WA4 | 25W3  | 27W2  |
| No. of Size 20 Cavities | 17#20 | 22#20 | 25#20 |
| No. of Size 8 Cavities  | 4#8   | 3#8   | 2#8   |



|                         |       |       |
|-------------------------|-------|-------|
| Shell Size              | D     | D     |
| Contact Arrangement     | 24W7  | 36W4  |
| No. of Size 20 Cavities | 17#20 | 32#20 |
| No. of Size 8 Cavities  | 7#8   | 4#8   |



|                         |       |       |
|-------------------------|-------|-------|
| Shell Size              | D     | D     |
| Contact Arrangement     | 43W2  | 47W1  |
| No. of Size 20 Cavities | 41#20 | 46#20 |
| No. of Size 8 Cavities  | 2#8   | 1#8   |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change



C  
D Sub

# Contact Cavities and Assembly Instructions

## Contact Arrangements

**Face View Pin Insert**  
(Use a mirror image for receptacle).

Shell Size  
Contact Arrangement  
Contact Size



|     |     |     |
|-----|-----|-----|
| E   | A   | B   |
| 9   | 15  | 25  |
| #20 | #20 | #20 |

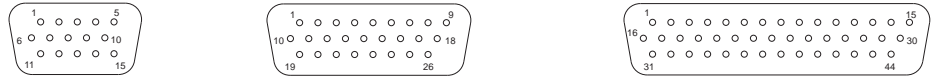
**Standard Density**



|     |     |
|-----|-----|
| C   | D   |
| 37  | 50  |
| #20 | #20 |

**Face View Pin Insert**  
(Use a mirror image for receptacle).

Shell size  
Contact Arrangement  
Contact Size



|     |     |     |
|-----|-----|-----|
| E   | A   | B   |
| 15  | 26  | 44  |
| #22 | #22 | #22 |

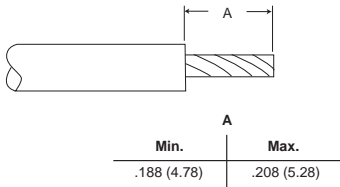
**High Density**



|     |     |
|-----|-----|
| C   | D   |
| 62  | 78  |
| #22 | #22 |

## Assembly Instructions

### Wire-Stripping – Machine Contacts



### Contact Crimping



### Contact Insertion



1. Cut wires to length. Strip insulation per above illustration. Check for frayed or broken wires.

2. Insert contact and wire into proper crimp tool (and locator, if required). Crimp contact to wire. Inspect crimp.

3. Center wired contact into groove of insertion tool with tool tip butting contact shoulder. Insert contact into cavity until a positive stop is felt. Inspect insertion.

### Contact Extraction



4. To be sure contact is locked securely, pull back lightly on wire. Repeat for balance of contacts working row by row across the insulator.

5. Place wire into extraction tool tip.

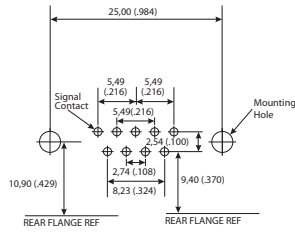
6. Insert tool tip into contact cavity until tip bottoms against contact shoulder, releasing tines. Hold wire against tool with finger and remove tool and contact. Repeat for balance of contacts.



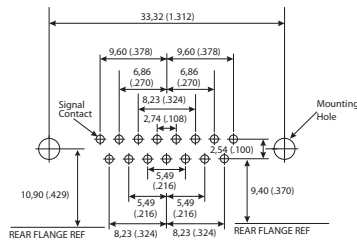
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

www.ittcannon.com

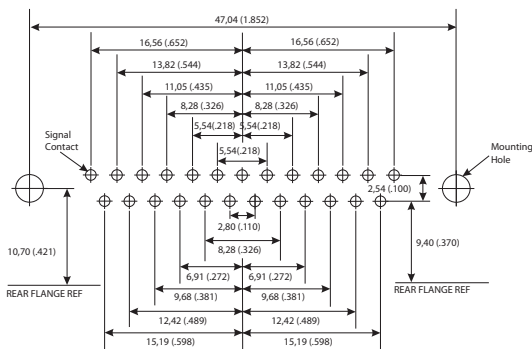
## Straight PCB Plug and Receptacle



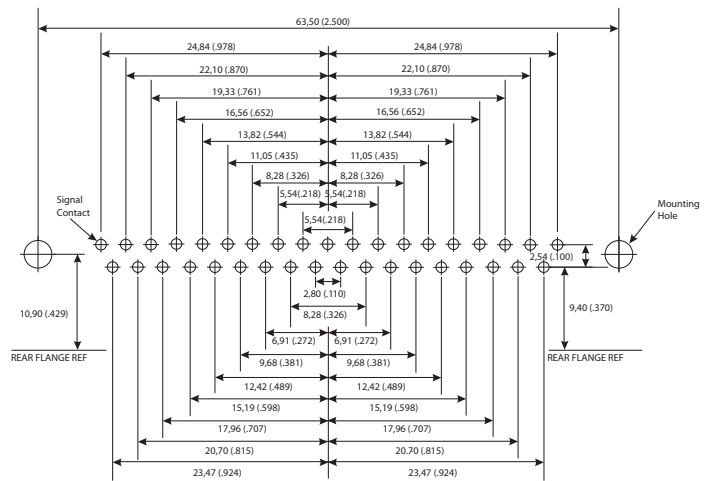
9 Contacts



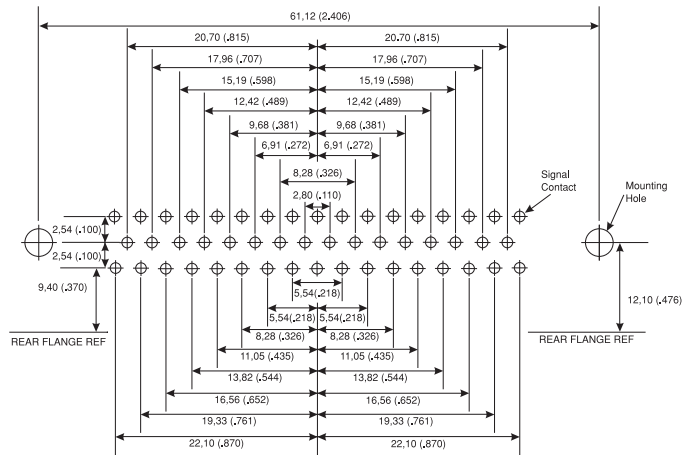
15 Contacts



25 Contacts



37 Contacts



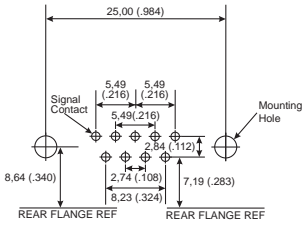
50 Contacts

| Signal Contact    | Recommended PCB Hole |
|-------------------|----------------------|
| 0,60 (.024)       | 1,00 (.039)          |
| Mounting Type     | Recommended PCB Hole |
| Without Boardlock | 3,05 (.120)          |
| With Boardlock    | 3,10 (.122)          |

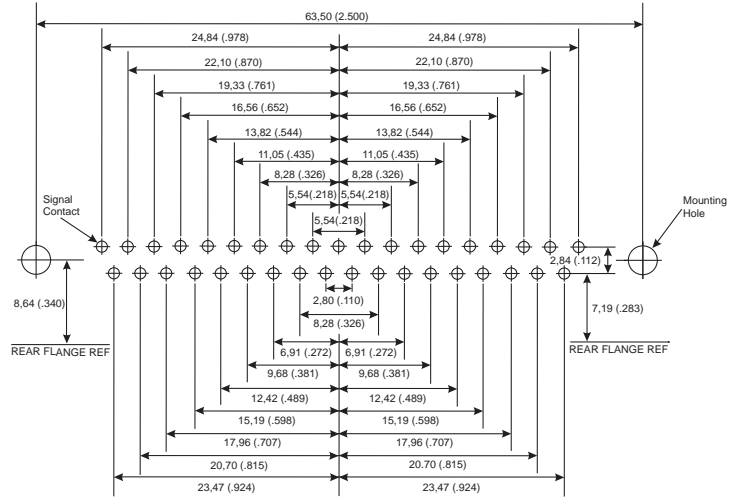
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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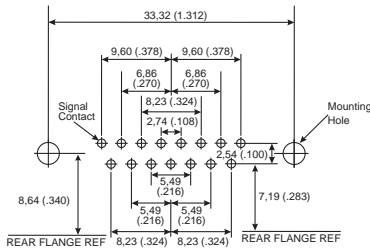
90° Plug and Receptacle



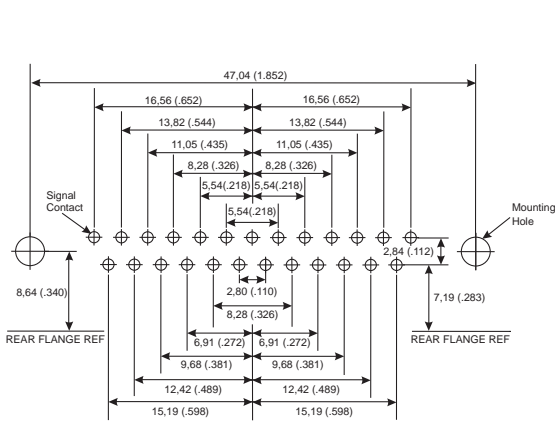
9 Contacts



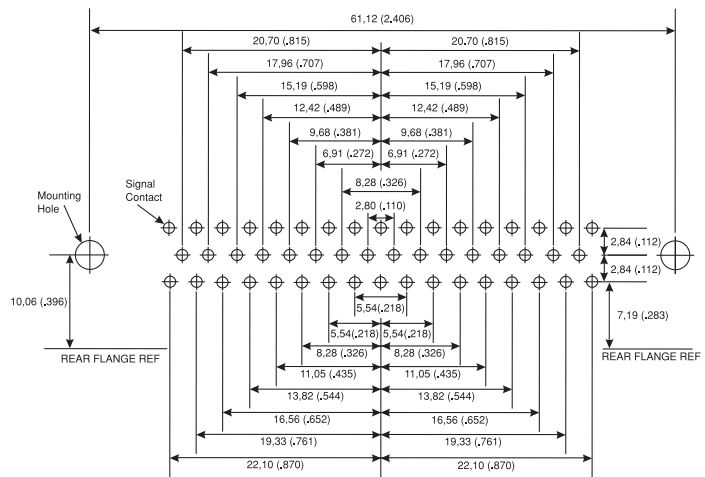
37 Contacts



15 Contacts



25 Contacts



50 Contacts

| Signal Contact    | Recommended PCB Hole |
|-------------------|----------------------|
| 0,76 (.030)       | 1,14 (.045)          |
| 1,00 (.040)       | 1,40 (.055)          |
| Mounting Type     | Recommended PCB Hole |
| Without Boardlock | 3,05 (.120)          |
| With Boardlock    | 3,10 (.122)          |

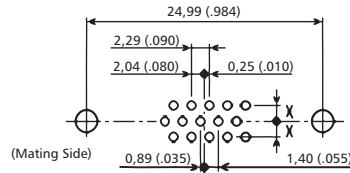
Dimensions shown in inches (mm)  
Specifications and dimensions subject to change



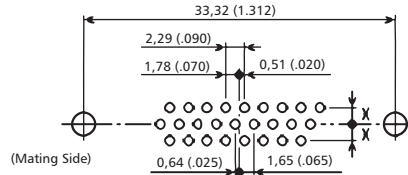
Straight PCB Hole Pattern

Face view, pin insert for plug  
(use a mirror image for receptacle)

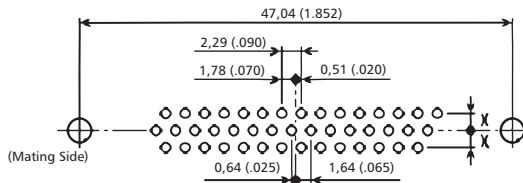
**SIZE E**  
15 Contacts



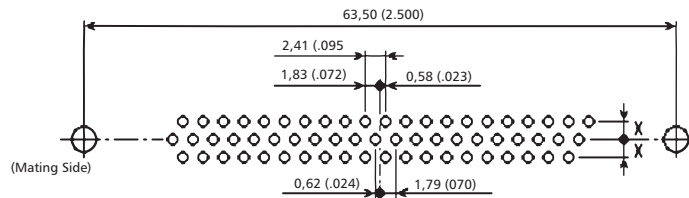
**SIZE A**  
26 Contacts



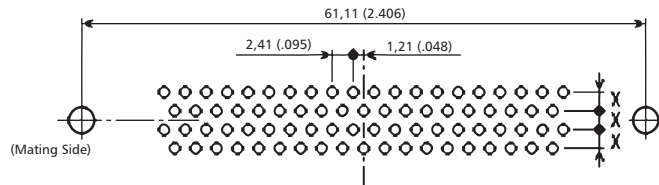
**SIZE B**  
44 Contacts



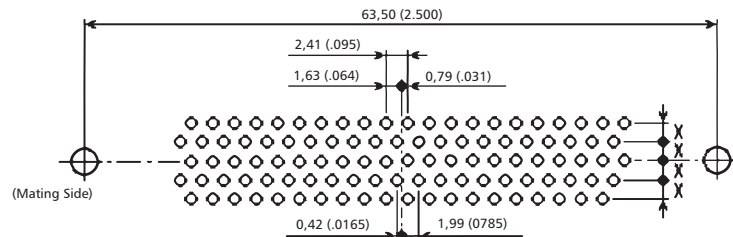
**SIZE C**  
62 Contacts



**SIZE D**  
78 Contacts



**SIZE F**  
104 Contacts



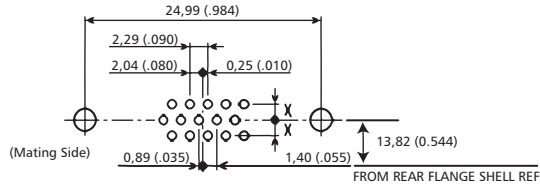
Dimension X  
1,98 (.078) for sizes E, A, B, C  
2,08 (.082) for size D

Recommended PC hole for signal contacts  
? 0,90 (.035) min for terminations ? 0,51 (.020)  
? 1,00 (.040) min for terminations ? 0,57 (.022)

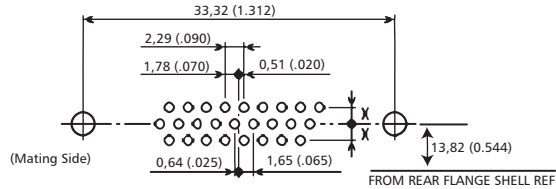
90° PCB Hole Pattern

Face view, pin insert for plug  
(use a mirror image for receptacle)

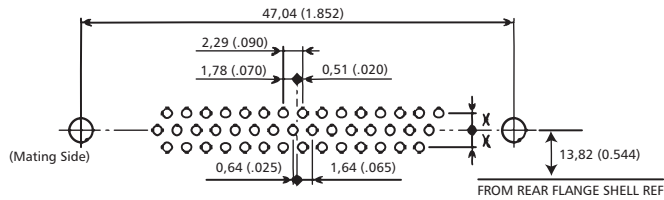
SIZE E  
15 Contacts



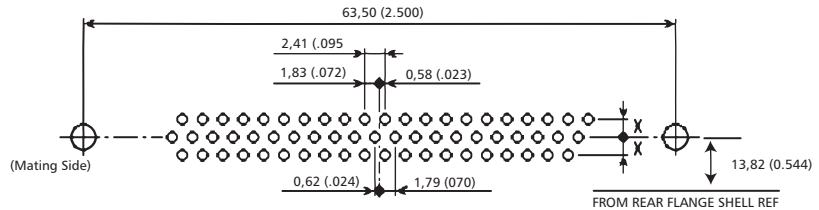
SIZE A  
26 Contacts



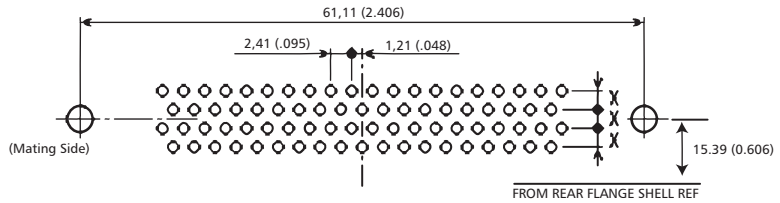
SIZE B  
44 Contacts



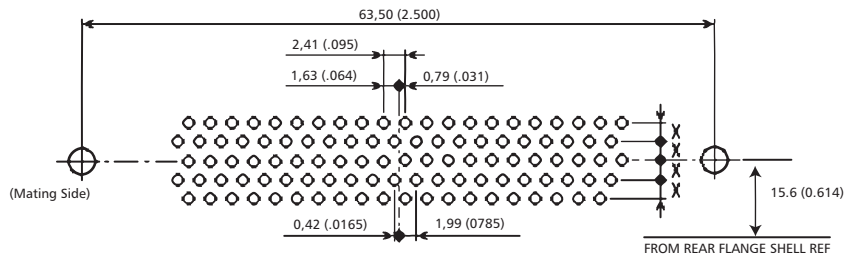
SIZE C  
62 Contacts



SIZE D  
78 Contacts



SIZE F  
104 Contacts



Dimension X  
1,98 (.078) for sizes E, A, B, C  
2,08 (.082) for size D

Recommended PC hole for signal contacts  
? 0,90 (.035) min for terminations ? 0,51 (.020)  
? 1,00 (.040) min for terminations ? 0,57 (.022)

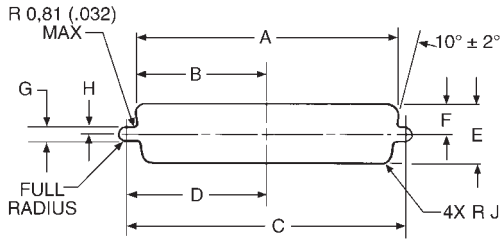
Recommended PCB mounting hole  
? 3.05 (.120)



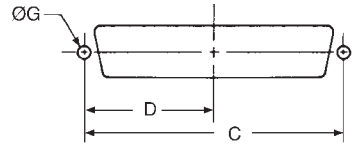
Standard Panel Cutouts

Panel Cutouts

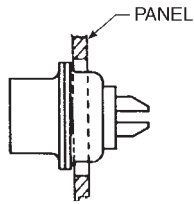
Standard Cutout



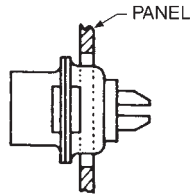
Rear Mounting Cutout (Optional)



Front Panel Mounting

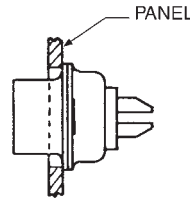


Standard Shell

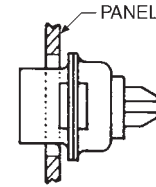


Dual Float Mount Shell

Rear Panel Mounting



Standard Shell



Dual Float Mount Shell

Standard Shell

| Shell Size | Mounting Method | A<br>± 0,13 (.005) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,13 (.005) | F<br>± 0,13 (.005) | G<br>± 0,05 (.002) | H<br>± 0,05 (.002) | J<br>± 0,05 (.002) |
|------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| DE         | Front           | 22,19 (.874)       | 11,09 (.437)       | 24,99 (.984)       | 12,49 (.492)       | 13,03 (.513)       | 6,52 (.257)        | 3,04 (.120)        | 1,52 (.060)        | 2,10 (.083)        |
|            | Rear            | 20,47 (.806)       | 10,23 (.403)       | 24,99 (.984)       | 12,49 (.492)       | 11,40 (.449)       | 5,71 (.225)        | 3,04 (.120)        | 1,52 (.060)        | 3,35 (.132)        |
| DA         | Front           | 30,53 (1.202)      | 15,26 (.601)       | 33,32 (1.312)      | 16,66 (.656)       | 13,03 (.513)       | 6,52 (.257)        | 3,04 (.120)        | 1,52 (.060)        | 2,10 (.083)        |
|            | Rear            | 28,80 (1.134)      | 14,40 (.567)       | 33,32 (1.312)      | 16,66 (.656)       | 11,40 (.449)       | 5,71 (.225)        | 3,04 (.120)        | 1,52 (.060)        | 3,35 (.132)        |
| DB         | Front           | 44,27 (1.743)      | 22,14 (.872)       | 47,04 (1.852)      | 23,52 (.926)       | 13,03 (.513)       | 6,52 (.257)        | 3,04 (.120)        | 1,52 (.060)        | 2,10 (.083)        |
|            | Rear            | 42,51 (1.674)      | 21,25 (.837)       | 47,04 (1.852)      | 23,52 (.926)       | 11,40 (.449)       | 5,71 (.225)        | 3,04 (.120)        | 1,52 (.060)        | 3,35 (.132)        |
| DC         | Front           | 60,73 (2.391)      | 30,37 (1.196)      | 63,50 (2.500)      | 31,75 (1.250)      | 13,03 (.513)       | 6,52 (.257)        | 3,04 (.120)        | 1,52 (.060)        | 2,10 (.083)        |
|            | Rear            | 59,08 (2.326)      | 29,54 (1.163)      | 63,50 (2.500)      | 31,75 (1.250)      | 11,40 (.449)       | 5,71 (.225)        | 3,04 (.120)        | 1,52 (.060)        | 3,35 (.132)        |
| DD         | Front           | 58,34 (2.297)      | 29,18 (1.149)      | 61,11 (2.406)      | 30,55 (1.203)      | 15,82 (.623)       | 7,92 (.312)        | 3,04 (.120)        | 1,52 (.060)        | 2,10 (.083)        |
|            | Rear            | 56,33 (2.218)      | 28,16 (1.109)      | 61,11 (2.406)      | 30,55 (1.203)      | 14,09 (.555)       | 7,06 (.278)        | 3,04 (.120)        | 1,52 (.060)        | 3,35 (.132)        |

Dual Float Mount Shell

| Shell Size | Mounting Method | A<br>± 0,13 (.005) | B<br>± 0,13 (.005) | C<br>± 0,13 (.005) | D<br>± 0,13 (.005) | E<br>± 0,13 (.005) | F<br>± 0,13 (.005) | G<br>± 0,05 (.002) | H<br>± 0,05 (.002) | J<br>± 0,05 (.002) |
|------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| DE         | Front           | 23,01 (.906)       | 11,50 (.453)       | 24,99 (.984)       | 12,49 (.492)       | 13,84 (.545)       | 6,93 (.273)        | 2,23 (.088)        | 1,11 (.044)        | 2,10 (.083)        |
|            | Rear            | 21,28 (.838)       | 10,64 (.419)       | 24,99 (.984)       | 12,49 (.492)       | 12,21 (.481)       | 6,12 (.241)        | 2,23 (.088)        | 1,11 (.044)        | 3,35 (.132)        |
| DA         | Front           | 31,34 (1.234)      | 15,67 (.617)       | 33,32 (1.312)      | 16,66 (.656)       | 13,84 (.545)       | 6,93 (.273)        | 2,23 (.088)        | 1,11 (.044)        | 2,10 (.083)        |
|            | Rear            | 29,61 (1.166)      | 14,80 (.583)       | 33,32 (1.312)      | 16,66 (.656)       | 12,21 (.481)       | 6,12 (.241)        | 2,23 (.088)        | 1,11 (.044)        | 3,35 (.132)        |
| DB         | Front           | 45,08 (1.775)      | 22,55 (.888)       | 47,04 (1.852)      | 23,52 (.926)       | 13,84 (.545)       | 6,93 (.273)        | 2,23 (.088)        | 1,11 (.044)        | 2,10 (.083)        |
|            | Rear            | 43,33 (1.706)      | 21,66 (.853)       | 47,04 (1.852)      | 23,52 (.926)       | 12,21 (.481)       | 6,12 (.241)        | 2,23 (.088)        | 1,11 (.044)        | 3,35 (.132)        |
| DC         | Front           | 61,54 (2.423)      | 30,78 (1.212)      | 63,50 (2.500)      | 31,75 (1.250)      | 13,84 (.545)       | 6,93 (.273)        | 2,23 (.088)        | 1,11 (.044)        | 2,10 (.083)        |
|            | Rear            | 59,79 (2.354)      | 29,89 (1.177)      | 63,50 (2.500)      | 31,75 (1.250)      | 12,21 (.481)       | 6,12 (.241)        | 2,23 (.088)        | 1,11 (.044)        | 3,35 (.132)        |
| DD         | Front           | 59,15 (2.329)      | 29,59 (1.165)      | 61,11 (2.406)      | 30,55 (1.203)      | 16,63 (.655)       | 8,33 (.328)        | 2,23 (.088)        | 1,11 (.044)        | 2,10 (.083)        |
|            | Rear            | 57,15 (2.250)      | 28,57 (1.125)      | 61,11 (2.406)      | 30,55 (1.203)      | 14,90 (.587)       | 7,46 (.294)        | 2,23 (.088)        | 1,11 (.044)        | 3,35 (.132)        |

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

# M24308 Cross Reference

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/1-1Z       | DEMM9S          |
| M24308/1-1F       | DEMM9S-A101     |
| M24308/1-2Z       | DAMM15S         |
| M24308/1-2F       | DAMM15S-A101    |
| M24308/1-3Z       | DBMM25S         |
| M24308/1-3F       | DBMM25S-A101    |
| M24308/1-4Z       | DCMM37S         |
| M24308/1-4F       | DCMM37S-A101    |
| M24308/1-5Z       | DDMM50S         |
| M24308/1-5F       | DDMM50S-A101    |
| M24308/1-12Z      | DEMMY9S         |
| M24308/1-12F      | DEMMY9S-A101    |
| M24308/1-13Z      | DAMMY15S        |
| M24308/1-13F      | DAMMY15S-A101   |
| M24308/1-14Z      | DBMMY25S        |
| M24308/1-14F      | DBMMY25S-A101   |
| M24308/1-15Z      | DCMMY37S        |
| M24308/1-15F      | DCMMY37S-A101   |
| M24308/1-16Z      | DDMMY50S        |
| M24308/1-16F      | DDMMY50S-A101   |
| M24308/1-23Z      | DEMMY9S         |
| M24308/1-23F      | DEMMY9S-A101    |
| M24308/1-24Z      | DAMMY15S        |
| M24308/1-24F      | DAMMY15S-A101   |
| M24308/1-25Z      | DBMMY25S        |
| M24308/1-25F      | DBMMY25S-A101   |
| M24308/1-26Z      | DCMMY37S        |
| M24308/1-26F      | DCMMY37S-A101   |
| M24308/1-27Z      | DDMMY50S        |
| M24308/1-27F      | DDMMY50S-A101   |
| M24308/2-1Z       | DEMAM9S         |
| M24308/2-1F       | DEMAM9S-A101    |
| M24308/2-2Z       | DAMAM15S        |
| M24308/2-2F       | DAMAM15S-A101   |
| M24308/2-3Z       | DCMAM25S        |
| M24308/2-3F       | DCMAM25S-A101   |
| M24308/2-4Z       | DCMAM37S        |
| M24308/2-4F       | DCMAM37S-A101   |
| M24308/2-5Z       | DDMAM50S        |
| M24308/2-5F       | DDMAM50S-A101   |
| M24308/2-6Z       | DEMAMT9S        |
| M24308/2-6F       | DEMAMT9S-A101   |
| M24308/2-7Z       | DAMAMT15S       |
| M24308/2-7F       | DAMAMT15S-A101  |
| M24308/2-8Z       | DBMAMT25S       |
| M24308/2-8F       | DBMAMT25S-A101  |
| M24308/2-9Z       | DCMAMT37S       |
| M24308/2-9F       | DCMAMT37S-A101  |
| M24308/2-10Z      | DDMAMT50S       |
| M24308/2-10F      | DDMAMT50S-A101  |
| M24308/2-11Z      | DEMAM15S        |
| M24308/2-11F      | DEMAM15S-A101   |
| M24308/2-12Z      | DAMAM26S        |
| M24308/2-12F      | DAMAM26S-A101   |
| M24308/2-13Z      | DBMAM44S        |
| M24308/2-13F      | DBMAM44S-A101   |
| M24308/2-14Z      | DCMAM62S        |
| M24308/2-14F      | DCMAM62S-A101   |

| Gov't Designation | ITT Part Number  |
|-------------------|------------------|
| M24308/2-15Z      | DDMAM78S         |
| M24308/2-15F      | DDMAM78S-A101    |
| M24308/2-17Z      | DEMAMT15S        |
| M24308/2-17F      | DEMAMT15S-A101   |
| M24308/2-18Z      | DAMAMT26S        |
| M24308/2-18F      | DAMAMT26S-A101   |
| M24308/2-19Z      | DBMAMT44S        |
| M24308/2-19F      | DBMAMT44S-A101   |
| M24308/2-20Z      | DCMAMT62S        |
| M24308/2-20F      | DCMAMT62S-A101   |
| M24308/2-21Z      | DDMAMT78S        |
| M24308/2-21F      | DDMAMT78S-A101   |
| M24308/2-23Z      | DEMAMY9S         |
| M24308/2-23F      | DEMAMY9S-A101    |
| M24308/2-24Z      | DAMAMY15S        |
| M24308/2-24F      | DAMAMY15S-A101   |
| M24308/2-25Z      | DBMAMY25S        |
| M24308/2-25F      | DBMAMY25S-A101   |
| M24308/2-26Z      | DCMAMY37S        |
| M24308/2-26F      | DCMAMY37S-A101   |
| M24308/2-27Z      | DDMAMY50S        |
| M24308/2-27F      | DDMAMY50S-A101   |
| M24308/2-28Z      | DEMAMY15S        |
| M24308/2-28F      | DEMAMY15S-A101   |
| M24308/2-29Z      | DAMAMY26S        |
| M24308/2-29F      | DAMAMY26S-A101   |
| M24308/2-30Z      | DBMAMY44S        |
| M24308/2-30F      | DBMAMY44S-A101   |
| M24308/2-31Z      | DCMAMY62S        |
| M24308/2-31F      | DCMAMY62S-A101   |
| M24308/2-32Z      | DDMAMY78S        |
| M24308/2-32F      | DDMAMY78S-A101   |
| M24308/2-34Z      | DEMAMYT9S        |
| M24308/2-34F      | DEMAMYT9S-A101   |
| M24308/2-35Z      | DAMAMYT15S       |
| M24308/2-35F      | DAMAMYT15S-A101  |
| M24308/2-36Z      | DBMAMYT25S       |
| M24308/2-36F      | DBMAMYT25S-A101  |
| M24308/2-37Z      | DCMAMYT37S       |
| M24308/2-37F      | DCMAMYT37S-A101  |
| M24308/2-38Z      | DDMAMYT50S       |
| M24308/2-38F      | DDMAMYT50S-A101  |
| M24308/2-39Z      | DEMAMYT15S       |
| M24308/2-39F      | DEMAMYT15S-A101  |
| M24308/2-40Z      | DAMAMYT26S       |
| M24308/2-40F      | DAMAMYT26S-A101  |
| M24308/2-41Z      | DBMAMYT44S       |
| M24308/2-41F      | DBMAMYT44S-A101  |
| M24308/2-42Z      | DCMAMYT62S       |
| M24308/2-42F      | DCMAMYT62S-A101  |
| M24308/2-43Z      | DDMAMYT78S       |
| M24308/2-43F      | DDMAMYT78S-A101  |
| M24308/2-281Z     | DEMAM9S-FO       |
| M24308/2-281F     | DEMAM9S-A101-FO  |
| M24308/2-282Z     | DAMAM15S-FO      |
| M24308/2-282F     | DAMAM15S-A101-FO |
| M24308/2-283Z     | DBMAM25S-FO      |
| M24308/2-283F     | DBMAM25S-A101-FO |

| Gov't Designation | ITT Part Number   |
|-------------------|-------------------|
| M24308/2-284Z     | DCMAM37S-FO       |
| M24308/2-284F     | DCMAM37S-A101-FO  |
| M24308/2-285Z     | DDMAM50S-FO       |
| M24308/2-285F     | DDMAM50S-A101-FO  |
| M24308/2-286Z     | DEMAM15S-FO       |
| M24308/2-286F     | DEMAM15S-A101-FO  |
| M24308/2-287Z     | DAMAM26S-FO       |
| M24308/2-287F     | DAMAM26S-A101-FO  |
| M24308/2-288Z     | DBMAM44S-FO       |
| M24308/2-288F     | DBMAM44S-A101-FO  |
| M24308/2-289Z     | DCMAM62S-FO       |
| M24308/2-289F     | DCMAM62S-A101-FO  |
| M24308/2-290Z     | DDMAM78S-FO       |
| M24308/2-290F     | DDMAM78S-A101-FO  |
| M24308/2-292Z     | DEMAMY9S-FO       |
| M24308/2-292F     | DEMAMY9S-A101-FO  |
| M24308/2-293Z     | DAMAMY15S-FO      |
| M24308/2-293F     | DAMAMY15S-A101-FO |
| M24308/2-294Z     | DBMAMY25S-FO      |
| M24308/2-294F     | DBMAMY25S-A101-FO |
| M24308/2-295Z     | DCMAMY37S-FO      |
| M24308/2-295F     | DCMAMY37S-A101-FO |
| M24308/2-296Z     | DDMAMY50S-FO      |
| M24308/2-296F     | DDMAMY50S-A101-FO |
| M24308/2-297Z     | DEMAMY15S-FO      |
| M24308/2-297F     | DEMAMY15S-A101-FO |
| M24308/2-298Z     | DAMAMY26S-FO      |
| M24308/2-298F     | DAMAMY26S-A101-FO |
| M24308/2-299Z     | DBMAMY44S-FO      |
| M24308/2-299F     | DBMAMY44S-A101-FO |
| M24308/2-300Z     | DCMAMY62S-FO      |
| M24308/2-300F     | DCMAMY62S-A101-FO |
| M24308/2-301Z     | DDMAMY78S-FO      |
| M24308/2-301F     | DDMAMY78S-A101-FO |
| M24308/2-335Z     | DBMAMY25S         |
| M24308/2-335F     | DBMAMY25S-A101    |
| M24308/2-336Z     | DCMAMY37S         |
| M24308/2-336F     | DCMAMY37S-A101    |
| M24308/2-341Z     | DAMAMY15S         |
| M24308/2-341F     | DAMAMY15S-A101    |
| M24308/2-342Z     | DEMAMY9S          |
| M24308/2-342F     | DEMAMY9S-A101     |
| M24308/2-343Z     | DAMAMY15S         |
| M24308/2-343F     | DAMAMY15S-A101    |
| M24308/2-344Z     | DBMAMY25S         |
| M24308/2-344F     | DBMAMY25S-A101    |
| M24308/2-345Z     | DCMAMY37S         |
| M24308/2-345F     | DCMAMY37S-A101    |
| M24308/2-346Z     | DDMAMY50S         |
| M24308/2-346F     | DDMAMY50S-A101    |
| M24308/2-347Z     | DEMAMY15S         |
| M24308/2-347F     | DEMAMY15S-A101    |
| M24308/2-348Z     | DAMAMY26S         |
| M24308/2-348F     | DAMAMY26S-A101    |
| M24308/2-349Z     | DBMAMY44S         |
| M24308/2-349F     | DBMAMY44S-A101    |
| M24308/2-350Z     | DCMAMY62S         |
| M24308/2-350F     | DCMAMY62S-A101    |



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

| Gov't Designation | ITT Part Number    |
|-------------------|--------------------|
| M24308/2-351Z     | DDMAMY78S          |
| M24308/2-351F     | DDMAMY78S-A101     |
| M24308/2-353Z     | DEMAMYT9S          |
| M24308/2-353F     | DEMAMYT9S-A101     |
| M24308/2-354Z     | DAMAMYT15S         |
| M24308/2-354F     | DAMAMYT15S-A101    |
| M24308/2-355Z     | DBMAMYT25S         |
| M24308/2-355F     | DBMAMYT25S-A101    |
| M24308/2-356Z     | DCMAMYT37S         |
| M24308/2-356F     | DCMAMYT37S-A101    |
| M24308/2-357Z     | DDMAMYT50S         |
| M24308/2-357F     | DDMAMYT50S-A101    |
| M24308/2-358Z     | DEMAMYT15S         |
| M24308/2-358F     | DEMAMYT15S-A101    |
| M24308/2-359Z     | DAMAMYT26S         |
| M24308/2-359F     | DAMAMYT26S-A101    |
| M24308/2-360Z     | DBMAMYT44S         |
| M24308/2-360F     | DBMAMYT44S-A101    |
| M24308/2-361Z     | DCMAMYT62S         |
| M24308/2-361F     | DCMAMYT62S-A101    |
| M24308/2-362Z     | DDMAMYT78S         |
| M24308/2-362F     | DDMAMYT78S-A101    |
| M24308/2-482Z     | DEMAMY9S-FO        |
| M24308/2-482F     | DEMAMY9S-A101-FO   |
| M24308/2-483Z     | DAMAMY15-S-FO      |
| M24308/2-483F     | DAMAMY15-S-A101-FO |
| M24308/2-484Z     | DBMAMY25S-FO       |
| M24308/2-484F     | DBMAMY25S-A101-FO  |
| M24308/2-485Z     | DCMAMY37S-FO       |
| M24308/2-485F     | DCMAMY37S-A101-FO  |
| M24308/2-486Z     | DDMAMY50S-FO       |
| M24308/2-486F     | DDMAMY50S-A101-FO  |
| M24308/2-487Z     | DEMAMY15S-FO       |
| M24308/2-487F     | DEMAMY15S-A101-FO  |
| M24308/2-488Z     | DAMAMY26S-FO       |
| M24308/2-488F     | DAMAMY26S-A101-FO  |
| M24308/2-489Z     | DBMAMY44S-FO       |
| M24308/2-489F     | DBMAMY44S-A101-FO  |
| M24308/2-490Z     | DCMAMY62S-FO       |
| M24308/2-490F     | DCMAMY62S-A101-FO  |
| M24308/2-491Z     | DDMAMY78S-FO       |
| M24308/2-491F     | DDMAMY78S-A101-FO  |
| M24308/2-509Z     | DBMAMY25S          |
| M24308/2-509F     | DBMAMY25S-A101     |
| M24308/2-510Z     | DCMAMY37S          |
| M24308/2-510F     | DCMAMY37S-A101     |
| M24308/2-515Z     | DAMAMY15S          |
| M24308/2-515F     | DAMAMY15S-A101     |
| M24308/3-1Z       | DEMAM9P            |
| M24308/3-1F       | DEMAM9P-A101       |
| M24308/3-2Z       | DAMM15P            |
| M24308/3-2F       | DAMM15P-A101       |
| M24308/3-3Z       | DBMM25P            |
| M24308/3-3F       | DBMM25P-A101       |
| M24308/3-4Z       | DCMM37P            |
| M24308/3-4F       | DCMM37P-A101       |
| M24308/3-5Z       | DDMM50P            |
| M24308/3-5F       | DDMM50P-A101       |

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/3-12Z      | DEMMY-9P        |
| M24308/3-12F      | DEMMY-9P-A101   |
| M24308/3-13Z      | DAMMY-15P       |
| M24308/3-13F      | DAMMY-15P-A101  |
| M24308/3-14Z      | DBMMY-25P       |
| M24308/3-14F      | DBMMY-25P-A101  |
| M24308/3-15Z      | DCMMY-37P       |
| M24308/3-15F      | DCMMY-37P-A101  |
| M24308/3-16Z      | DDMMY-50P       |
| M24308/3-16F      | DDMMY-50P-A101  |
| M24308/3-17Z      | DEMMY-9P        |
| M24308/3-17F      | DEMMY-9P-A101   |
| M24308/3-18Z      | DAMMY-15P       |
| M24308/3-18F      | DAMMY-15P-A101  |
| M24308/3-19Z      | DBMMY-25P       |
| M24308/3-19F      | DBMMY-25P-A101  |
| M24308/3-20Z      | DCMMY-37P       |
| M24308/3-20F      | DCMMY-37P-A101  |
| M24308/3-21Z      | DDMMY-50P       |
| M24308/3-21F      | DDMMY-50P-A101  |
| M24308/4-1Z       | DEMAM9P         |
| M24308/4-1F       | DEMAM9P-A101    |
| M24308/4-2Z       | DAMAM15P        |
| M24308/4-2F       | DAMAM15P-A101   |
| M24308/4-3Z       | DBMAM25P        |
| M24308/4-3F       | DBMAM25P-A101   |
| M24308/4-4Z       | DCMAM37P        |
| M24308/4-4F       | DCMAM37P-A101   |
| M24308/4-5Z       | DDMAM50P        |
| M24308/4-5F       | DDMAM50P-A101   |
| M24308/4-6Z       | DEMAMT9P        |
| M24308/4-6F       | DEMAMT9P-A101   |
| M24308/4-7Z       | DAMAMT15P       |
| M24308/4-7F       | DAMAMT15P-A101  |
| M24308/4-8Z       | DBMAMT25P       |
| M24308/4-8F       | DBMAMT25P-A101  |
| M24308/4-9Z       | DCMAMT37P       |
| M24308/4-9F       | DCMAMT37P-A101  |
| M24308/4-10Z      | DDMAMT50P       |
| M24308/4-10F      | DDMAMT50P-A101  |
| M24308/4-11Z      | DEMAM15P        |
| M24308/4-11F      | DEMAM15P-A101   |
| M24308/4-12Z      | DAMAM26P        |
| M24308/4-12F      | DAMAM26P-A101   |
| M24308/4-13Z      | DBMAM44P        |
| M24308/4-13F      | DBMAM44P-A101   |
| M24308/4-14Z      | DCMAM62P        |
| M24308/4-14F      | DCMAM62P-A101   |
| M24308/4-15Z      | DDMAM78P        |
| M24308/4-15F      | DDMAM78P-A101   |
| M24308/4-17Z      | DEMAMT15P       |
| M24308/4-17F      | DEMAMT15P-A101  |
| M24308/4-18Z      | DAMAMT26P       |
| M24308/4-18F      | DAMAMT26P-A101  |
| M24308/4-19Z      | DBMAMT44P       |
| M24308/4-19F      | DBMAMT44P-A101  |
| M24308/4-20Z      | DCMAMT62P       |
| M24308/4-20F      | DCMAMT62P-A101  |

| Gov't Designation | ITT Part Number  |
|-------------------|------------------|
| M24308/4-21Z      | DDMAMT78P        |
| M24308/4-21F      | DDMAMT78P-A101   |
| M24308/4-259Z     | DEMAM9P-FO       |
| M24308/4-259F     | DEMAM9P-A101-FO  |
| M24308/4-260Z     | DAMAM15P-FO      |
| M24308/4-260F     | DAMAM15P-A101-FO |
| M24308/4-261Z     | DBMAM25P-FO      |
| M24308/4-261F     | DBMAM25P-A101-FO |
| M24308/4-262Z     | DCMAM37P-FO      |
| M24308/4-262F     | DCMAM37P-A101-FO |
| M24308/4-263Z     | DDMAM50P-FO      |
| M24308/4-263F     | DDMAM50P-A101-FO |
| M24308/4-264Z     | DEMAM15P-FO      |
| M24308/4-264F     | DEMAM15P-A101-FO |
| M24308/4-265Z     | DAMAM26P-FO      |
| M24308/4-265F     | DAMAM26P-A101-FO |
| M24308/4-266Z     | DBMAM44P-FO      |
| M24308/4-266F     | DBMAM44P-A101-FO |
| M24308/4-267Z     | DCMAM62P-FO      |
| M24308/4-267F     | DCMAM62P-A101-FO |
| M24308/4-268Z     | DDMAM78P-FO      |
| M24308/4-268F     | DDMAM78P-A101-FO |
| M24308/4-302Z     | DEMAMY9P         |
| M24308/4-302F     | DEMAMY9P-A101    |
| M24308/4-303Z     | DAMAMY15P        |
| M24308/4-303F     | DAMAMY15P-A101   |
| M24308/4-304Z     | DBMAMY25P        |
| M24308/4-304F     | DBMAMY25P-A101   |
| M24308/4-305Z     | DCMAMY37P        |
| M24308/4-305F     | DCMAMY37P-A101   |
| M24308/4-306Z     | DDMAMY50P        |
| M24308/4-306F     | DDMAMY50P-A101   |
| M24308/4-307Z     | DEMAMY15P        |
| M24308/4-307F     | DEMAMY15P-A101   |
| M24308/4-308Z     | DAMAMY26P        |
| M24308/4-308F     | DAMAMY26P-A101   |
| M24308/4-309Z     | DBMAMY44P        |
| M24308/4-309F     | DBMAMY44P-A101   |
| M24308/4-310Z     | DCMAMY62P        |
| M24308/4-310F     | DCMAMY62P-A101   |
| M24308/4-311Z     | DDMAMY78P        |
| M24308/4-311F     | DDMAMY78P-A101   |
| M24308/4-313Z     | DEMAMYT9P        |
| M24308/4-313F     | DEMAMYT9P-A101   |
| M24308/4-314Z     | DAMAMYT15P       |
| M24308/4-314F     | DAMAMYT15P-A101  |
| M24308/4-315Z     | DBMAMYT25P       |
| M24308/4-315F     | DBMAMYT25P-A101  |
| M24308/4-316Z     | DCMAMYT37P       |
| M24308/4-316F     | DCMAMYT37P-A101  |
| M24308/4-317Z     | DDMAMYT50P       |
| M24308/4-317F     | DDMAMYT50P-A101  |
| M24308/4-318Z     | DEMAMYT15P       |
| M24308/4-318F     | DEMAMYT15P-A101  |
| M24308/4-319Z     | DAMAMYT26P       |
| M24308/4-319F     | DAMAMYT26P-A101  |
| M24308/4-320Z     | DBMAMYT44P       |
| M24308/4-320F     | DBMAMYT44P-A101  |

Dimensions shown in inches (mm)  
 Specifications and dimensions subject to change

# M24308 Cross Reference

| Gov't Designation | ITT Part Number   |
|-------------------|-------------------|
| M24308/4-321Z     | DCMAMYT62P        |
| M24308/4-321F     | DCMAMYT62P-A101   |
| M24308/4-322Z     | DDMAMYT78P        |
| M24308/4-322F     | DDMAMYT78P-A101   |
| M24308/4-324Z     | DEMAMY9PFO        |
| M24308/4-324F     | DEMAMY9P-A101-FO  |
| M24308/4-325Z     | DAMAMY15PFO       |
| M24308/4-325F     | DAMAMY15P-A101-FO |
| M24308/4-326Z     | DBMAMY25PFO       |
| M24308/4-326F     | DBMAMY25P-A101-FO |
| M24308/4-327Z     | DCMAMY37PFO       |
| M24308/4-327F     | DCMAMY37P-A101-FO |
| M24308/4-328Z     | DDMAMY50PFO       |
| M24308/4-328F     | DDMAMY50P-A101-FO |
| M24308/4-329Z     | DEMAMY15P-FO      |
| M24308/4-329F     | DEMAMY15P-A101-FO |
| M24308/4-330Z     | DAMAMY26P-FO      |
| M24308/4-330F     | DAMAMY26P-A101-FO |
| M24308/4-331Z     | DBMAMY44P-FO      |
| M24308/4-331F     | DBMAMY44P-A101-FO |
| M24308/4-332Z     | DCMAMY62P-FO      |
| M24308/4-332F     | DCMAMY62P-A101-FO |
| M24308/4-333Z     | DDMAMY78P-FO      |
| M24308/4-333F     | DDMAMY78P-A101-FO |
| M24308/4-435Z     | DEMAMY9P          |
| M24308/4-435F     | DEMAMY9P-A101     |
| M24308/4-436Z     | DAMAMY15P         |
| M24308/4-436F     | DAMAMY15P-A101    |
| M24308/4-437Z     | DBMAMY25P         |
| M24308/4-437F     | DBMAMY25P-A101    |
| M24308/4-438Z     | DCMAMY37P         |
| M24308/4-438F     | DCMAMY37P-A101    |
| M24308/4-439Z     | DDMAMY50P         |
| M24308/4-439F     | DDMAMY50P-A101    |
| M24308/4-440Z     | DEMAMY15P         |
| M24308/4-440F     | DEMAMY15P-A101    |
| M24308/4-441Z     | DAMAMY26P         |
| M24308/4-441F     | DAMAMY26P-A101    |
| M24308/4-442Z     | DBMAMY44P         |
| M24308/4-442F     | DBMAMY44P-A101    |
| M24308/4-443Z     | DCMAMY62P         |
| M24308/4-443F     | DCMAMY62P-A101    |
| M24308/4-444Z     | DDMAMY78P         |
| M24308/4-444F     | DDMAMY78P-A101    |
| M24308/4-446Z     | DEMAMY9P          |
| M24308/4-446F     | DEMAMY9P-A101     |
| M24308/4-447Z     | DAMAMY15P         |
| M24308/4-447F     | DAMAMY15P-A101    |
| M24308/4-448Z     | DBMAMY25P         |
| M24308/4-448F     | DBMAMY25P-A101    |
| M24308/4-449Z     | DCMAMY37P         |
| M24308/4-449F     | DCMAMY37P-A101    |
| M24308/4-450Z     | DDMAMY50P         |
| M24308/4-450F     | DDMAMY50P-A101    |
| M24308/4-451Z     | DEMAMY15P         |
| M24308/4-451F     | DEMAMY15P-A101    |
| M24308/4-452Z     | DAMAMY26P         |
| M24308/4-452F     | DAMAMY26P-A101    |

| Gov't Designation | ITT Part Number   |
|-------------------|-------------------|
| M24308/4-452F     | DAMAMY26P-A101    |
| M24308/4-453Z     | DBMAMY44P         |
| M24308/4-453F     | DBMAMY44P-A101    |
| M24308/4-454Z     | DCMAMY62P         |
| M24308/4-454F     | DCMAMY62P-A101    |
| M24308/4-455Z     | DDMAMY78P         |
| M24308/4-455F     | DDMAMY78P-A101    |
| M24308/4-457Z     | DEMAMY9P-FO       |
| M24308/4-457F     | DEMAMY9P-A101-FO  |
| M24308/4-458Z     | DAMAMY15P-FO      |
| M24308/4-458F     | DAMAMY15P-A101-FO |
| M24308/4-459Z     | DBMAMY25P-FO      |
| M24308/4-459F     | DBMAMY25P-A101-FO |
| M24308/4-460Z     | DCMAMY37P-FO      |
| M24308/4-460F     | DCMAMY37P-A101-FO |
| M24308/4-461Z     | DDMAMY50P-FO      |
| M24308/4-461F     | DDMAMY50P-A101-FO |
| M24308/4-462Z     | DEMAMY15P-FO      |
| M24308/4-462F     | DEMAMY15P-A101-FO |
| M24308/4-463Z     | DAMAMY26P-FO      |
| M24308/4-463F     | DAMAMY26P-A101-FO |
| M24308/4-464Z     | DBMAMY44P-FO      |
| M24308/4-464F     | DBMAMY44P-A101-FO |
| M24308/4-465Z     | DCMAMY62P-FO      |
| M24308/4-465F     | DCMAMY62P-A101-FO |
| M24308/4-466Z     | DDMAMY78P-FO      |
| M24308/4-466F     | DDMAMY78P-A101-FO |
| M24308/5-1Z       | DEMAM9SNM         |
| M24308/5-1F       | DEMAM9SNM-A101    |
| M24308/5-1P       | DEMAM9SNM-F225    |
| M24308/5-2Z       | DAMM15SNM         |
| M24308/5-2F       | DAMM15SNM-A101    |
| M24308/5-2P       | DAMM15SNM-F225    |
| M24308/5-3Z       | DBMM25SNM         |
| M24308/5-3F       | DBMM25SNM-A101    |
| M24308/5-3P       | DBMM25SNM-F225    |
| M24308/5-4Z       | DCMM37SNM         |
| M24308/5-4F       | DCMM37SNM-A101    |
| M24308/5-4P       | DCMM37SNM-F225    |
| M24308/5-5Z       | DDMM50SNM         |
| M24308/5-5F       | DDMM50SNM-A101    |
| M24308/5-5P       | DDMM50SNM-F225    |
| M24308/5-12Z      | DEMMY9SNM         |
| M24308/5-12F      | DEMMY9SNM-A101    |
| M24308/5-13Z      | DAMMY15SNM        |
| M24308/5-13F      | DAMMY15SNM-A101   |
| M24308/5-14Z      | DBMMY25SNM        |
| M24308/5-14F      | DBMMY25SNM-A101   |
| M24308/5-15Z      | DCMMY37SNM        |
| M24308/5-15F      | DCMMY37SNM-A101   |
| M24308/5-16Z      | DDMMY50SNM        |
| M24308/5-16F      | DDMMY50SNM-A101   |
| M24308/5-23Z      | DEMMY9SNM         |
| M24308/5-23F      | DEMMY9SNM-A101    |
| M24308/5-24Z      | DAMMY15SNM        |
| M24308/5-24F      | DAMMY15SNM-A101   |
| M24308/5-25Z      | DBMMY25SNM        |
| M24308/5-25F      | DBMMY25SNM-A101   |
| M24308/5-26Z      | DCMMY37SNM        |

| Gov't Designation | ITT Part Number  |
|-------------------|------------------|
| M24308/5-26F      | DCMMY37SNM-A101  |
| M24308/5-27Z      | DDMMY50SNM       |
| M24308/5-27F      | DDMMY50SNM-A101  |
| M24308/5-34       | DEMAM9SNMBK52    |
| M24308/5-35       | DAMM15SNMBK52    |
| M24308/5-36       | DBMM25SNMBK52    |
| M24308/5-37       | DCMM37SNMBK52    |
| M24308/5-38       | DDMM50SNMBK52    |
| M24308/5-45       | DEMMY9SNMBK52    |
| M24308/5-46       | DAMMY15SNMBK52   |
| M24308/5-47       | DBMMY25SNMBK52   |
| M24308/5-48       | DCMMY37SNMBK52   |
| M24308/5-49       | DDMMY50SNMBK52   |
| M24308/5-56       | DEMMY9SNMBK52    |
| M24308/5-57       | DAMMY15SNMBK52   |
| M24308/5-58       | DBMMY25SNMBK52   |
| M24308/5-59       | DCMMY37SNMBK52   |
| M24308/5-60       | DDMMY50SNMBK52   |
| M24308/6-1Z       | DEMAM9SNM        |
| M24308/6-1F       | DEMAM9SNM-A101   |
| M24308/6-1P       | DEMAM9SNM-F225   |
| M24308/6-2Z       | DAMAM15SNM       |
| M24308/6-2F       | DAMAM15SNM-A101  |
| M24308/6-2P       | DAMAM15SNM-F225  |
| M24308/6-3Z       | DBMAM25SNM       |
| M24308/6-3F       | DBMAM25SNM-A101  |
| M24308/6-3P       | DBMAM25SNM-F225  |
| M24308/6-4Z       | DCMAM37SNM       |
| M24308/6-4F       | DCMAM37SNM-A101  |
| M24308/6-4P       | DCMAM37SNM-F225  |
| M24308/6-5Z       | DDMAM50SNM       |
| M24308/6-5F       | DDMAM50SNM-A101  |
| M24308/6-5P       | DDMAM50SNM-F225  |
| M24308/6-6Z       | DEMAMT9SNM       |
| M24308/6-6F       | DEMAMT9SNM-A101  |
| M24308/6-6P       | DEMAMT9SNM-F225  |
| M24308/6-7Z       | DAMAMT15SNM      |
| M24308/6-7F       | DAMAMT15SNM-A101 |
| M24308/6-7P       | DAMAMT15SNM-F225 |
| M24308/6-8Z       | DBMAMT25SNM      |
| M24308/6-8F       | DBMAMT25SNM-A101 |
| M24308/6-8P       | DBMAMT25SNM-F225 |
| M24308/6-9Z       | DCMAMT37SNM      |
| M24308/6-9F       | DCMAMT37SNM-A101 |
| M24308/6-9P       | DCMAMT37SNM-F225 |
| M24308/6-10Z      | DDMAMT50SNM      |
| M24308/6-10F      | DDMAMT50SNM-A101 |
| M24308/6-10P      | DDMAMT50SNM-F225 |
| M24308/6-11Z      | DEMAM15SNM       |
| M24308/6-11F      | DEMAM15SNM-A101  |
| M24308/6-11P      | DEMAM15SNM-F225  |
| M24308/6-12Z      | DAMAM26SNM       |
| M24308/6-12F      | DAMAM26SNM-A101  |
| M24308/6-12P      | DAMAM26SNM-F225  |
| M24308/6-13Z      | DBMAM44SNM       |
| M24308/6-13F      | DBMAM44SNM-A101  |
| M24308/6-13P      | DBMAM44SNM-F225  |
| M24308/6-14Z      | DCMAM62SNM       |

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Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

| Gov't Designation | ITT Part Number   |
|-------------------|-------------------|
| M24308/6-14F      | DCMAM62SNM-A101   |
| M24308/6-14P      | DCMAM62SNM-F225   |
| M24308/6-15Z      | DDMAM78SNM        |
| M24308/6-15F      | DDMAM78SNM-A101   |
| M24308/6-15P      | DDMAM78SNM-F225   |
| M24308/6-17Z      | DEMAMT15SNM       |
| M24308/6-17F      | DEMAMT15SNM-A101  |
| M24308/6-17P      | DEMAMT15SNM-F225  |
| M24308/6-18Z      | DAMAMT26SNM       |
| M24308/6-18F      | DAMAMT26SNM-A101  |
| M24308/6-18P      | DAMAMT26SNM-F225  |
| M24308/6-19Z      | DBMAMT44SNM       |
| M24308/6-19F      | DBMAMT44SNM-A101  |
| M24308/6-19P      | DBMAMT44SNM-F225  |
| M24308/6-20Z      | DCMAMT62SNM       |
| M24308/6-20F      | DCMAMT62SNM-A101  |
| M24308/6-20P      | DCMAMT62SNM-F225  |
| M24308/6-21Z      | DDMAMT78SNM       |
| M24308/6-21F      | DDMAMT78SNM-A101  |
| M24308/6-21P      | DDMAMT78SNM-F225  |
| M24308/6-259Z     | DEMAMY9SNM        |
| M24308/6-259F     | DEMAMY9SNM-A101   |
| M24308/6-260Z     | DAMAMY15SNM       |
| M24308/6-260F     | DAMAMY15SNM-A101  |
| M24308/6-261Z     | DBMAMY25SNM       |
| M24308/6-261F     | DBMAMY25SNM-A101  |
| M24308/6-262Z     | DCMAMY37SNM       |
| M24308/6-262F     | DCMAMY37SNM-A101  |
| M24308/6-263Z     | DDMAMY50SNM       |
| M24308/6-263F     | DDMAMY50SNM-A101  |
| M24308/6-264Z     | DEMAMY15SNM       |
| M24308/6-264F     | DEMAMY15SNM-A101  |
| M24308/6-265Z     | DAMAMY26SNM       |
| M24308/6-265F     | DAMAMY26SNM-A101  |
| M24308/6-266Z     | DBMAMY44SNM       |
| M24308/6-266F     | DCMAMY44SNM-A101  |
| M24308/6-267Z     | DCMAMY62SNM       |
| M24308/6-267F     | DCMAMY62SNM-A101  |
| M24308/6-268Z     | DDMAMY78SNM       |
| M24308/6-268F     | DDMAMY78SNM-A101  |
| M24308/6-270Z     | DEMAMYT9SNM       |
| M24308/6-270F     | DEMAMYT9SNM-A101  |
| M24308/6-271Z     | DAMAMYT15SNM      |
| M24308/6-271F     | DAMAMYT15SNM-A101 |
| M24308/6-272Z     | DBMAMYT25SNM      |
| M24308/6-272F     | DBMAMYT25SNM-A101 |
| M24308/6-273Z     | DCMAMYT37SNM      |
| M24308/6-273F     | DCMAMYT37SNM-A101 |
| M24308/6-274Z     | DDMAMYT50SNM      |
| M24308/6-274F     | DDMAMYT50SNM-A101 |
| M24308/6-275Z     | DEMAMYT15SNM      |
| M24308/6-275F     | DEMAMYT15SNM-A101 |
| M24308/6-276Z     | DAMAMYT26SNM      |
| M24308/6-276F     | DAMAMYT26SNM-A101 |
| M24308/6-277Z     | DBMAMYT44SNM      |
| M24308/6-277F     | DCMAMYT44SNM-A101 |
| M24308/6-278Z     | DCMAMY62SNM       |
| M24308/6-278F     | DCMAMYT62SNM-A101 |

| Gov't Designation | ITT Part Number     |
|-------------------|---------------------|
| M24308/6-279Z     | DDMAMYT78SNM        |
| M24308/6-279F     | DDMAMYT78SNM-A101   |
| M24308/6-281Z     | DEMAM9SNM-FO        |
| M24308/6-281F     | DEMAM9SNM-A101-FO   |
| M24308/6-281P     | DEMAM9SNM-F225-FO   |
| M24308/6-282Z     | DAMAM15SNM-FO       |
| M24308/6-282F     | DAMAM15SNM-A101-FO  |
| M24308/6-282P     | DAMAM15SNM-F225-FO  |
| M24308/6-283Z     | DBMAM25SNM-FO       |
| M24308/6-283F     | DBMAM25SNM-A101-FO  |
| M24308/6-283P     | DBMAM25SNM-F225-FO  |
| M24308/6-284Z     | DCMAM37SNM-FO       |
| M24308/6-284F     | DCMAM37SNM-A101-FO  |
| M24308/6-284P     | DCMAM37SNM-F225-FO  |
| M24308/6-285Z     | DDMAM50SNM-FO       |
| M24308/6-285F     | DDMAM50SNM-A101-FO  |
| M24308/6-285P     | DDMAM50SNM-F225-FO  |
| M24308/6-286Z     | DEMAM15SNM-FO       |
| M24308/6-286F     | DEMAM15SNM-A101-FO  |
| M24308/6-286P     | DEMAM15SNM-F225-FO  |
| M24308/6-287Z     | DAMAM26SNM-FO       |
| M24308/6-287F     | DAMAM26SNM-A101-FO  |
| M24308/6-287P     | DAMAM26SNM-F225-FO  |
| M24308/6-288Z     | DBMAM44SNM-FO       |
| M24308/6-288F     | DBMAM44SNM-A101-FO  |
| M24308/6-288P     | DBMAM44SNM-F225-FO  |
| M24308/6-289Z     | DCMAM62SNM-FO       |
| M24308/6-289F     | DCMAM62SNM-A101-FO  |
| M24308/6-289P     | DCMAM62SNM-F225-FO  |
| M24308/6-290Z     | DDMAM78SNM-FO       |
| M24308/6-290F     | DDMAM78SNM-A101-FO  |
| M24308/6-290P     | DDMAM78SNM-F225-FO  |
| M24308/6-324      | DEMAMY9SNM-FO       |
| M24308/6-324F     | DEMAMY9SNM-A101-FO  |
| M24308/6-325      | DAMAMY15SNM-FO      |
| M24308/6-325F     | DAMAMY15SNM-A101-FO |
| M24308/6-326      | DBMAMY25SNM-FO      |
| M24308/6-326F     | DBMAMY25SNM-A101-FO |
| M24308/6-327      | DCMAMY37SNM-FO      |
| M24308/6-327F     | DCMAMY37SNM-A101-FO |
| M24308/6-328      | DDMAMY50SNM-FO      |
| M24308/6-328F     | DDMAMY50SNM-A101-FO |
| M24308/6-453      | DEMAMY9SNM          |
| M24308/6-453F     | DEMAMY9SNM-A101     |
| M24308/6-454      | DAMAMY15SNM         |
| M24308/6-454F     | DAMAMY15SNM-A101    |
| M24308/6-455      | DBMAMY25SNM         |
| M24308/6-455F     | DBMAMY25SNM-A101    |
| M24308/6-456      | DCMAMY37SNM         |
| M24308/6-456F     | DCMAMY37SNM-A101    |
| M24308/6-457      | DDMAMY50SNM         |
| M24308/6-457F     | DDMAMY50SNM-A101    |
| M24308/6-458      | DEMAMY15SNM         |
| M24308/6-458F     | DEMAMY15SNM-A101    |
| M24308/6-459      | DAMAMY26SNM         |
| M24308/6-459F     | DAMAMY26SNM-A101    |
| M24308/6-460      | DBMAMY44SNM         |
| M24308/6-460F     | DBMAMY44SNM-A101    |

| Gov't Designation | ITT Part Number     |
|-------------------|---------------------|
| M24308/6-461      | DCMAMY62SNM         |
| M24308/6-461F     | DCMAMY62SNM-A101    |
| M24308/6-462      | DDMAMY78SNM         |
| M24308/6-462F     | DDMAMY78SNM-A101    |
| M24308/6-464Z     | DEMAMYT9SNM         |
| M24308/6-464F     | DEMAMYT9SNM-A101    |
| M24308/6-465Z     | DAMAMYT15SNM        |
| M24308/6-465F     | DAMAMYT15SNM-A101   |
| M24308/6-466Z     | DBMAMYT25SNM        |
| M24308/6-466F     | DBMAMYT25SNM-A101   |
| M24308/6-467Z     | DCMAMYT37SNM        |
| M24308/6-467F     | DCMAMYT37SNM-A101   |
| M24308/6-468Z     | DDMAMYT50SNM        |
| M24308/6-468F     | DDMAMYT50SNM-A101   |
| M24308/6-469Z     | DEMAMYT15SNM        |
| M24308/6-469F     | DEMAMYT15SNM-A101   |
| M24308/6-470Z     | DAMAMYT26SNM        |
| M24308/6-470F     | DAMAMYT26SNM-A101   |
| M24308/6-471Z     | DBMAMYT44SNM        |
| M24308/6-471F     | DBMAMYT44SNM-A101   |
| M24308/6-472Z     | DCMAMYT62SNM        |
| M24308/6-472F     | DCMAMYT62SNM-A101   |
| M24308/6-473Z     | DDMAMYT78SNM        |
| M24308/6-473F     | DDMAMYT78SNM-A101   |
| M24308/6-491Z     | DEMAMY9SNM-FO       |
| M24308/6-491F     | DEMAMY9SNM-A101-FO  |
| M24308/6-492Z     | DAMAMY15SNM-FO      |
| M24308/6-492F     | DAMAMY15SNM-A101-FO |
| M24308/6-493Z     | DBMAMY25SNM-FO      |
| M24308/6-493F     | DBMAMY25SNM-A101-FO |
| M24308/6-494Z     | DCMAMY37SNM-FO      |
| M24308/6-494F     | DCMAMY37SNM-A101-FO |
| M24308/6-495Z     | DDMAMY50SNM-FO      |
| M24308/6-495F     | DDMAMY50SNM-A101-FO |
| M24308/6-496Z     | DEMAMY15SNM-FO      |
| M24308/6-496F     | DEMAMY15SNM-A101-FO |
| M24308/6-497Z     | DAMAMY26SNM-FO      |
| M24308/6-497F     | DAMAMY26SNM-A101-FO |
| M24308/6-498Z     | DBMAMY44SNM-FO      |
| M24308/6-498F     | DBMAMY44SNM-A101-FO |
| M24308/6-499Z     | DCMAMY62SNM-FO      |
| M24308/6-499F     | DCMAMY62SNM-A101-FO |
| M24308/6-500Z     | DDMAMY78SNM-FO      |
| M24308/6-500F     | DDMAMY78SNM-A101-FO |
| M24308/6-502      | DEMAM9SNMBK52       |
| M24308/6-503      | DAMAM15SNMBK52      |
| M24308/6-504      | DBMAM25SNMBK52      |
| M24308/6-505      | DCMAM37SNMBK52      |
| M24308/6-506      | DDMAM50SNMBK52      |
| M24308/6-507      | DEMAMT9SNMBK52      |
| M24308/6-508      | DAMAMT15SNMBK52     |
| M24308/6-509      | DBMAMT25SNMBK52     |
| M24308/6-510      | DCMAMT37SNMBK52     |
| M24308/6-511      | DDMAMT50SNMBK52     |
| M24308/6-512      | DEMAM15SNMBK52      |
| M24308/6-513      | DAMAM26SNMBK52      |
| M24308/6-514      | DBMAM44SNMBK52      |
| M24308/6-515      | DCMAM62SNMBK52      |

Dimensions shown in inches (mm)  
 Specifications and dimensions subject to change



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Sub

# M24308 Cross Reference

| Gov't Designation | ITT Part Number    |
|-------------------|--------------------|
| M24308/6-516      | DDMAM78SNMBK52     |
| M24308/6-518      | DEMAMT15SNMBK52    |
| M24308/6-519      | DAMAMT26SNMBK52    |
| M24308/6-520      | DBMAMT44SNMBK52    |
| M24308/6-521      | DCMAMT62SNMBK52    |
| M24308/6-522      | DDMAM78SNMBK52     |
| M24308/6-518      | DEMAMY9SNMBK52     |
| M24308/6-519      | DAMAMY15SNMBK52    |
| M24308/6-520      | DBMAMY25SNMBK52    |
| M24308/6-521      | DCMAMY37SNMBK52    |
| M24308/6-522      | DDMAMY50SNMBK52    |
| M24308/6-523      | DEMAMY15SNMBK52    |
| M24308/6-524      | DAMAMY26SNMBK52    |
| M24308/6-525      | DBMAMY44SNMBK52    |
| M24308/6-526      | DCMAMY62SNMBK52    |
| M24308/6-527      | DDMAMY78SNMBK52    |
| M24308/6-528      | DEMAMY9SNMBK52     |
| M24308/6-529      | DAMAMY15SNMBK52    |
| M24308/6-531      | DBMAMY25SNMBK52    |
| M24308/6-532      | DCMAMY37SNMBK52    |
| M24308/6-533      | DDMAMY50SNMBK52    |
| M24308/6-534      | DEMAMY15SNMBK52    |
| M24308/6-535      | DAMAMY26SNMBK52    |
| M24308/6-536      | DBMAMY44SNMBK52    |
| M24308/6-537      | DCMAMY62SNMBK52    |
| M24308/6-538      | DDMAMY78SNMBK52    |
| M24308/6-540      | DEMAM9SNMBK52-FO   |
| M24308/6-541      | DAMAM15SNMBK52-FO  |
| M24308/6-542      | DBMAM25SNMBK52-FO  |
| M24308/6-543      | DCMAM37SNMBK52-FO  |
| M24308/6-544      | DDMAM50SNMBK52-FO  |
| M24308/6-545      | DEMAM15SNMBK52-FO  |
| M24308/6-546      | DAMAM26SNMBK52-FO  |
| M24308/6-547      | DBMAM44SNMBK52-FO  |
| M24308/6-548      | DCMAM62SNMBK52-FO  |
| M24308/6-549      | DDMAM78SNMBK52-FO  |
| M24308/6-551      | DEMAMY9SNMBK52     |
| M24308/6-552      | DAMAMY15SNMBK52    |
| M24308/6-553      | DBMAMY25SNMBK52    |
| M24308/6-554      | DCMAMY37SNMBK52    |
| M24308/6-555      | DDMAMY50SNMBK52    |
| M24308/6-556      | DEMAMY15SNMBK52    |
| M24308/6-557      | DAMAMY26SNMBK52    |
| M24308/6-558      | DBMAMY44SNMBK52    |
| M24308/6-559      | DCMAMY62SNMBK52    |
| M24308/6-560      | DDMAMY78SNMBK52    |
| M24308/6-562      | DEMAMYT9SNMBK52    |
| M24308/6-563      | DAMAMYT15SNMBK52   |
| M24308/6-564      | DBMAMYT25SNMBK52   |
| M24308/6-565      | DCMAMYT37SNMBK52   |
| M24308/6-566      | DDMAMYT50SNMBK52   |
| M24308/6-567      | DEMAMYT15SNMBK52   |
| M24308/6-568      | DAMAMYT26SNMBK52   |
| M24308/6-569      | DBMAMYT44SNMBK52   |
| M24308/6-570      | DCMAMYT62SNMBK52   |
| M24308/6-571      | DDMAMYT78SNMBK52   |
| M24308/6-573      | DEMAMY9SNMBK52-FO  |
| M24308/6-574      | DAMAMY15SNMBK52-FO |

| Gov't Designation | ITT Part Number    |
|-------------------|--------------------|
| M24308/6-575      | DBMAMY25SNMBK52-FO |
| M24308/6-576      | DCMAMY37SNMBK52-FO |
| M24308/6-577      | DDMAMY50SNMBK52-FO |
| M24308/6-578      | DEMAMY15SNMBK52-FO |
| M24308/6-579      | DAMAMY26SNMBK52-FO |
| M24308/6-580      | DBMAMY44SNMBK52-FO |
| M24308/6-581      | DCMAMY62SNMBK52-FO |
| M24308/6-582      | DDMAMY78SNMBK52-FO |
| M24308/7-1Z       | DEMAM9PNM          |
| M24308/7-1F       | DEMAM9PNM-A101     |
| M24308/7-1P       | DEMAM9PNM-F225     |
| M24308/7-2Z       | DAMM15PNM          |
| M24308/7-2F       | DAMM15PNM-A101     |
| M24308/7-2P       | DAMM15PNM-F225     |
| M24308/7-3Z       | DBMM25PNM          |
| M24308/7-3F       | DBMM25PNM-A101     |
| M24308/7-3P       | DBMM25PNM-F225     |
| M24308/7-4Z       | DCMM37PNM          |
| M24308/7-4F       | DCMM37PNM-A101     |
| M24308/7-4P       | DCMM37PNM-F225     |
| M24308/7-5Z       | DDMM50PNM          |
| M24308/7-5F       | DDMM50PNM-A101     |
| M24308/7-5P       | DDMM50PNM-F225     |
| M24308/7-12Z      | DEMMY9PNM          |
| M24308/7-12F      | DEMMY9PNM-A101     |
| M24308/7-13Z      | DAMMY15PNM         |
| M24308/7-13F      | DAMMY15PNM-A101    |
| M24308/7-14Z      | DBMMY25PNM         |
| M24308/7-14F      | DBMMY25PNM-A101    |
| M24308/7-15Z      | DCMMY37PNM         |
| M24308/7-15F      | DCMMY37PNM-A101    |
| M24308/7-16Z      | DDMMY50PNM         |
| M24308/7-16F      | DDMMY50PNM-A101    |
| M24308/7-17Z      | DEMMY9PNM          |
| M24308/7-17F      | DEMMY9PNM-A101     |
| M24308/7-18Z      | DAMMY15PNM         |
| M24308/7-18F      | DAMMY15PNM-A101    |
| M24308/7-19Z      | DBMMY25PNM         |
| M24308/7-19F      | DBMMY25PNM-A101    |
| M24308/7-20Z      | DCMMY37PNM         |
| M24308/7-20F      | DCMMY37PNM-A101    |
| M24308/7-21Z      | DDMMY50PNM         |
| M24308/7-21F      | DDMMY50PNM-A101    |
| M24308/7-23       | DEMAM9PNMBK52      |
| M24308/7-24       | DAMM15PNMBK52      |
| M24308/7-25       | DBMM25PNMBK52      |
| M24308/7-26       | DCMM37PNMBK52      |
| M24308/7-27       | DDMM50PNMBK52      |
| M24308/7-34       | DEMMY9PNMBK52      |
| M24308/7-35       | DAMMY15PNMBK52     |
| M24308/7-36       | DBMMY25PNMBK52     |
| M24308/7-37       | DCMMY37PNMBK52     |
| M24308/7-38       | DDMMY50PNMBK52     |
| M24308/7-39       | DEMMY9PNMBK52      |
| M24308/7-40       | DAMMY15PNMBK52     |
| M24308/7-41       | DBMMY25PNMBK52     |
| M24308/7-42       | DCMMY37PNMBK52     |
| M24308/7-43       | DDMMY50PNMBK52     |

| Gov't Designation | ITT Part Number  |
|-------------------|------------------|
| M24308/8-1Z       | DEMAM9PNM        |
| M24308/8-1F       | DEMAM9PNM-A101   |
| M24308/8-1P       | DEMAM9PNM-F225   |
| M24308/8-2Z       | DAMAM15PNM       |
| M24308/8-2F       | DAMAM15PNM-A101  |
| M24308/8-2P       | DAMAM15PNM-F225  |
| M24308/8-3Z       | DBMAM25PNM       |
| M24308/8-3F       | DBMAM25PNM-A101  |
| M24308/8-3P       | DBMAM25PNM-F225  |
| M24308/8-4Z       | DCMAM37PNM       |
| M24308/8-4F       | DCMAM37PNM-A101  |
| M24308/8-4P       | DCMAM37PNM-F225  |
| M24308/8-5Z       | DDMAM50PNM       |
| M24308/8-5F       | DDMAM50PNM-A101  |
| M24308/8-5P       | DDMAM50PNM-F225  |
| M24308/8-6Z       | DEMAMT9PNM       |
| M24308/8-6F       | DEMAMT9PNM-A101  |
| M24308/8-6P       | DEMAMT9PNM-F225  |
| M24308/8-7Z       | DEMAMT15PNM      |
| M24308/8-7F       | DEMAMT15PNM-A101 |
| M24308/8-7P       | DEMAMT15PNM-F225 |
| M24308/8-8Z       | DBMAMT25PNM      |
| M24308/8-8F       | DBMAMT25PNM-A101 |
| M24308/8-8P       | DBMAMT25PNM-F225 |
| M24308/8-9Z       | DCMAMT37PNM      |
| M24308/8-9F       | DCMAMT37PNM-A101 |
| M24308/8-9P       | DCMAMT37PNM-F225 |
| M24308/8-10Z      | DDMAMT50PNM      |
| M24308/8-10F      | DDMAMT50PNM-A101 |
| M24308/8-10P      | DDMAMT50PNM-F225 |
| M24308/8-11Z      | DEMAM15PNM       |
| M24308/8-11F      | DEMAM15PNM-A101  |
| M24308/8-11P      | DEMAM15PNM-F225  |
| M24308/8-12Z      | DAMAM26PNM       |
| M24308/8-12F      | DAMAM26PNM-A101  |
| M24308/8-12P      | DAMAM26PNM-F225  |
| M24308/8-13Z      | DBMAM44PNM       |
| M24308/8-13F      | DBMAM44PNM-A101  |
| M24308/8-13P      | DBMAM44PNM-F225  |
| M24308/8-14Z      | DCMAM62PNM       |
| M24308/8-14F      | DCMAM62PNM-A101  |
| M24308/8-14P      | DCMAM62PNM-F225  |
| M24308/8-15Z      | DDMAM78PNM       |
| M24308/8-15F      | DDMAM78PNM-A101  |
| M24308/8-15P      | DDMAM78PNM-F225  |
| M24308/8-17Z      | DEMAMT15PNM      |
| M24308/8-17F      | DEMAMT15PNM-A101 |
| M24308/8-17P      | DEMAMT15PNM-F225 |
| M24308/8-18Z      | DAMAMT26PNM      |
| M24308/8-18F      | DAMAMT26PNM-A101 |
| M24308/8-18P      | DAMAMT26PNM-F225 |
| M24308/8-19Z      | DBMAMT44PNM      |
| M24308/8-19F      | DBMAMT44PNM-A101 |
| M24308/8-19P      | DBMAMT44PNM-F225 |
| M24308/8-20Z      | DCMAMT62PNM      |
| M24308/8-20F      | DCMAMT62PNM-A101 |
| M24308/8-20P      | DCMAMT62PNM-F225 |
| M24308/8-21Z      | DDMAMT78PNM      |

D Sub



Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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| Gov't Designation | ITT Part Number    |
|-------------------|--------------------|
| M24308/8-21F      | DDMAMT78PNM-A101   |
| M24308/8-21P      | DDMAMT78PNM-F225   |
| M24308/8-259Z     | DEMAM9PNM-FO       |
| M24308/8-259F     | DEMAM9PNM-A101-FO  |
| M24308/8-259P     | DEMAM9PNM-F225-FO  |
| M24308/8-260Z     | DAMAM15PNM-FO      |
| M24308/8-260F     | DAMAM15PNM-A101-FO |
| M24308/8-260P     | DAMAM15PNM-F225-FO |
| M24308/8-261Z     | DBMAM25PNM-FO      |
| M24308/8-261F     | DBMAM25PNM-A101-FO |
| M24308/8-261P     | DBMAM25PNM-F225-FO |
| M24308/8-262Z     | DCMAM37PNM-FO      |
| M24308/8-262F     | DCMAM37PNM-A101-FO |
| M24308/8-262P     | DCMAM37PNM-F225-FO |
| M24308/8-263Z     | DDMAM50PNM-FO      |
| M24308/8-263F     | DDMAM50PNM-A101-FO |
| M24308/8-263P     | DDMAM50PNM-F225-FO |
| M24308/8-264Z     | DEMAM15PNM-FO      |
| M24308/8-264F     | DEMAM15PNM-A101-FO |
| M24308/8-264P     | DEMAM15PNM-F225-FO |
| M24308/8-265Z     | DAMAM26PNM-FO      |
| M24308/8-265F     | DAMAM26PNM-A101-FO |
| M24308/8-265P     | DAMAM26PNM-F225-FO |
| M24308/8-266Z     | DBMAM44PNM-FO      |
| M24308/8-266F     | DBMAM44PNM-A101-FO |
| M24308/8-266P     | DBMAM44PNM-F225-FO |
| M24308/8-267Z     | DCMAM62PNM-FO      |
| M24308/8-267F     | DCMAM62PNM-A101-FO |
| M24308/8-267P     | DCMAM62PNM-F225-FO |
| M24308/8-268Z     | DDMAM78PNM-FO      |
| M24308/8-268F     | DDMAM78PNM-A101-FO |
| M24308/8-268P     | DDMAM78PNM-F225-FO |
| M24308/8-302Z     | DEMAMY9PNM         |
| M24308/8-302F     | DEMAMY9PNM-A101    |
| M24308/8-303Z     | DAMAMY15PNM        |
| M24308/8-303F     | DAMAMY15PNM-A101   |
| M24308/8-304Z     | DBMAMY25PNM        |
| M24308/8-304F     | DBMAMY25PNM-A101   |
| M24308/8-305Z     | DCMAMY37PNM        |
| M24308/8-305F     | DCMAMY37PNM-A101   |
| M24308/8-306Z     | DDMAMY50PNM        |
| M24308/8-306F     | DDMAMY50PNM-A101   |
| M24308/8-307Z     | DEMAMY15PNM        |
| M24308/8-307F     | DEMAMY15PNM-A101   |
| M24308/8-308Z     | DAMAMY26PNM        |
| M24308/8-308F     | DAMAMY26PNM-A101   |
| M24308/8-309Z     | DBMAMY44PNM        |
| M24308/8-309F     | DBMAMY44PNM-A101   |
| M24308/8-310Z     | DCMAMY62PNM        |
| M24308/8-310F     | DCMAMY62PNM-A101   |
| M24308/8-311Z     | DDMAMY78PNM        |
| M24308/8-311F     | DDMAMY78PNM-A101   |
| M24308/8-313Z     | DEMAMY9PNM         |
| M24308/8-313F     | DEMAMY9PNM-A101    |
| M24308/8-314Z     | DAMAMY15PNM        |
| M24308/8-314F     | DAMAMY15PNM-A101   |
| M24308/8-315Z     | DBMAMY25PNM        |
| M24308/8-315F     | DBMAMY25PNM-A101   |
| M24308/8-316Z     | DCMAMY37PNM        |

| Gov't Designation | ITT Part Number     |
|-------------------|---------------------|
| M24308/8-316F     | DCMAMY37PNM-A101    |
| M24308/8-317Z     | DDMAMY50PNM         |
| M24308/8-317F     | DDMAMY50PNM-A101    |
| M24308/8-318Z     | DEMAMY15PNM         |
| M24308/8-318F     | DEMAMY15PNM-A101    |
| M24308/8-319Z     | DAMAMY26PNM         |
| M24308/8-319F     | DAMAMY26PNM-A101    |
| M24308/8-320Z     | DBMAMY44PNM         |
| M24308/8-320F     | DBMAMY44PNM-A101    |
| M24308/8-321Z     | DCMAMY62PNM         |
| M24308/8-321F     | DCMAMY62PNM-A101    |
| M24308/8-322Z     | DDMAMY78PNM         |
| M24308/8-322F     | DDMAMY78PNM-A101    |
| M24308/8-324Z     | DEMAMY9PNM-FO       |
| M24308/8-324F     | DEMAMY9PNM-FO-A101  |
| M24308/8-325Z     | DAMAMY15PNM-FO      |
| M24308/8-325F     | DAMAMY15PNM-FO-A101 |
| M24308/8-326Z     | DBMAMY25PNM-FO      |
| M24308/8-326F     | DBMAMY25PNM-FO-A101 |
| M24308/8-327Z     | DCMAMY37PNM-FO      |
| M24308/8-327F     | DCMAMY37PNM-FO-A101 |
| M24308/8-328Z     | DDMAMY50PNM-FO      |
| M24308/8-328F     | DDMAMY50PNM-A101-FO |
| M24308/8-329Z     | DEMAMY15PNM-FO      |
| M24308/8-329F     | DEMAMY15PNM-A101-FO |
| M24308/8-330Z     | DAMAMY26PNM-FO      |
| M24308/8-331F     | DAMAMY26PNM-A101-FO |
| M24308/8-331Z     | DBMAMY44PNM-FO      |
| M24308/8-332F     | DBMAMY44PNM-A101-FO |
| M24308/8-332Z     | DCMAMY62PNM-FO      |
| M24308/8-333F     | DCMAMY62PNM-A101-FO |
| M24308/8-333Z     | DDMAMY78PNM-FO      |
| M24308/8-333F     | DDMAMY78PNM-A101-FO |
| M24308/8-335      | DEMAM9PNMBK52       |
| M24308/8-336      | DAMAM15PNMBK52      |
| M24308/8-337      | DBMAM25PNMBK52      |
| M24308/8-338      | DCMAM37PNMBK52      |
| M24308/8-339      | DDMAM50PNMBK52      |
| M24308/8-340      | DEMAMT9PNMBK52      |
| M24308/8-341      | DEMAMT15PNMBK52     |
| M24308/8-342      | DBMAMT25PNMBK52     |
| M24308/8-343      | DCMAMT37PNMBK52     |
| M24308/8-344      | DDMAMT50PNMBK52     |
| M24308/8-345      | DEMAM15PNMBK52      |
| M24308/8-346      | DAMAM26PNMBK52      |
| M24308/8-347      | DBMAM44PNMBK52      |
| M24308/8-348      | DCMAM62PNMBK52      |
| M24308/8-349      | DDMAM78PNMBK52      |
| M24308/8-351      | DEMAMT15PNMBK52     |
| M24308/8-352      | DAMAMT26PNMBK52     |
| M24308/8-353      | DBMAMT44PNMBK52     |
| M24308/8-354      | DCMAMT62PNMBK52     |
| M24308/8-355      | DDMAMT78PNMBK52     |
| M24308/8-357      | DEMAM9PNMBK52-FO    |
| M24308/8-358      | DAMAM15PNMBK52-FO   |
| M24308/8-359      | DBMAM25PNMBK52-FO   |
| M24308/8-360      | DCMAM37PNMBK52-FO   |
| M24308/8-361      | DDMAM50PNMBK52-FO   |

| Gov't Designation | ITT Part Number    |
|-------------------|--------------------|
| M24308/8-362      | DEMAM15PNMBK52-FO  |
| M24308/8-363      | DAMAM26PNMBK52-FO  |
| M24308/8-364      | DBMAM44PNMBK52-FO  |
| M24308/8-365      | DCMAM62PNMBK52-FO  |
| M24308/8-366      | DDMAM78PNMBK52-FO  |
| M24308/8-368      | DEMAMY9PNMBK52     |
| M24308/8-369      | DAMAMY15PNMBK52    |
| M24308/8-370      | DBMAMY25PNMBK52    |
| M24308/8-371      | DCMAMY37PNMBK52    |
| M24308/8-372      | DDMAMY50PNMBK52    |
| M24308/8-373      | DEMAMY15PNMBK52    |
| M24308/8-374      | DAMAMY26PNMBK52    |
| M24308/8-375      | DBMAMY44PNMBK52    |
| M24308/8-376      | DCMAMY62PNMBK52    |
| M24308/8-377      | DDMAMY78PNMBK52    |
| M24308/8-379      | DEMAMY9PNMBK52     |
| M24308/8-380      | DAMAMY15PNMBK52    |
| M24308/8-381      | DBMAMY25PNMBK52    |
| M24308/8-382      | DCMAMT37PNMBK52    |
| M24308/8-383      | DDMAMT50PNMBK52    |
| M24308/8-384      | DEMAMY15PNMBK52    |
| M24308/8-385      | DAMAMY26PNMBK52    |
| M24308/8-386      | DBMAMT44PNMBK52    |
| M24308/8-387      | DCMAMT62PNMBK52    |
| M24308/8-388      | DDMAMT78PNMBK52    |
| M24308/8-390      | DEMAMY9PNMBK52-FO  |
| M24308/8-391      | DAMAMY15PNMBK52-FO |
| M24308/8-392      | DBMAMY25PNMBK52-FO |
| M24308/8-393      | DCMAMY37PNMBK52-FO |
| M24308/8-394      | DDMAMY50PNMBK52-FO |
| M24308/8-395      | DEMAMY15PNMBK52-FO |
| M24308/8-396      | DAMAMY26PNMBK52-FO |
| M24308/8-397      | DBMAMY44PNMBK52-FO |
| M24308/8-398      | DCMAMY62PNMBK52-FO |
| M24308/8-399      | DDMAMY78PNMBK52-FO |
| M24308/8-401      | DEMAMY9PNMBK52     |
| M24308/8-402      | DAMAMY15PNMBK52    |
| M24308/8-403      | DBMAMY25PNMBK52    |
| M24308/8-404      | DCMAMY37PNMBK52    |
| M24308/8-405      | DDMAMY50PNMBK52    |
| M24308/8-406      | DEMAMY15PNMBK52    |
| M24308/8-407      | DAMAMY26PNMBK52    |
| M24308/8-408      | DBMAMY44PNMBK52    |
| M24308/8-409      | DCMAMY62PNMBK52    |
| M24308/8-410      | DDMAMY78PNMBK52    |
| M24308/8-412      | DEMAMY9PNMBK52     |
| M24308/8-413      | DAMAMY15PNMBK52    |
| M24308/8-414      | DBMAMY25PNMBK52    |
| M24308/8-415      | DCMAMT37PNMBK52    |
| M24308/8-416      | DDMAMT50PNMBK52    |
| M24308/8-417      | DEMAMY15PNMBK52    |
| M24308/8-418      | DAMAMY26PNMBK52    |
| M24308/8-419      | DBMAMT44PNMBK52    |
| M24308/8-420      | DCMAMT62PNMBK52    |
| M24308/8-421      | DDMAMT78PNMBK52    |
| M24308/8-423      | DEMAMY9PNMBK52-FO  |
| M24308/8-424      | DAMAMY15PNMBK52-FO |
| M24308/8-425      | DBMAMY25PNMBK52-FO |

Dimensions shown in inches (mm)  
 Specifications and dimensions subject to change



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# M24308 Cross Reference

| Gov't Designation | ITT Part Number     |
|-------------------|---------------------|
| M24308/8-427      | DDMAMY50PNMBK52-FO  |
| M24308/8-428      | DEMAMY15PNMBK52-FO  |
| M24308/8-429      | DAMAMY26PNMBK52-FO  |
| M24308/8-430      | DBMAMY44PNMBK52-FO  |
| M24308/8-431      | DCMAMY62PNMBK52-FO  |
| M24308/8-432      | DDMAMY78PNMBK52-FO  |
| M24308/8-435Z     | DEMAMY9PNM          |
| M24308/8-435F     | DEMAMY9PNM-A101     |
| M24308/8-436Z     | DAMAMY15PNM         |
| M24308/8-436F     | DAMAMY15PNM-A101    |
| M24308/8-437Z     | DBMAMY25PNM         |
| M24308/8-437F     | DBMAMY25PNM-A101    |
| M24308/8-438Z     | DCMAMY37PNM         |
| M24308/8-438F     | DCMAMY37PNM-A101    |
| M24308/8-439Z     | DDMAMY50PNM         |
| M24308/8-439F     | DDMAMY50PNM-A101    |
| M24308/8-440Z     | DEMAMY15PNM         |
| M24308/8-440F     | DEMAMY15PNM-A101    |
| M24308/8-441Z     | DAMAMY26PNM         |
| M24308/8-441F     | DAMAMY26PNM-A101    |
| M24308/8-442Z     | DBMAMY44PNM         |
| M24308/8-442F     | DBMAMY44PNM-A101    |
| M24308/8-443Z     | DCMAMY62PNM         |
| M24308/8-443F     | DCMAMY62PNM-A101    |
| M24308/8-444Z     | DDMAMY78PNM         |
| M24308/8-444F     | DDMAMY78PNM-A101    |
| M24308/8-446Z     | DEMAMYT9PNM         |
| M24308/8-446F     | DEMAMYT9PNM-A101    |
| M24308/8-447Z     | DAMAMYT15PNM        |
| M24308/8-447F     | DAMAMYT15PNM-A101   |
| M24308/8-448Z     | DBMAMYT25PNM        |
| M24308/8-448F     | DBMAMYT25PNM-A101   |
| M24308/8-449Z     | DCMAMYT37PNM        |
| M24308/8-449F     | DCMAMYT37PNM-A101   |
| M24308/8-450Z     | DDMAMY50PNM         |
| M24308/8-450F     | DDMAMY50PNM-A101    |
| M24308/8-451Z     | DEMAMYT15PNM        |
| M24308/8-451F     | DEMAMYT15PNM-A101   |
| M24308/8-452Z     | DAMAMYT26PNM        |
| M24308/8-452F     | DAMAMYT26PNM-A101   |
| M24308/8-453Z     | DBMAMYT44PNM        |
| M24308/8-453F     | DBMAMYT44PNM-A101   |
| M24308/8-454Z     | DCMAMYT62PNM        |
| M24308/8-454F     | DCMAMYT62PNM-A101   |
| M24308/8-455Z     | DDMAMY78PNM         |
| M24308/8-455F     | DDMAMY78PNM-A101    |
| M24308/8-457Z     | DEMAMY9PNM-FO       |
| M24308/8-457F     | DEMAMY9PNM-A101-FO  |
| M24308/8-458Z     | DAMAMY15PNM-FO      |
| M24308/8-458F     | DAMAMY15PNM-A101-FO |
| M24308/8-459Z     | DBMAMY25PNM-FO      |
| M24308/8-459F     | DBMAMY25PNM-A101-FO |
| M24308/8-460Z     | DCMAMY37PNM-FO      |
| M24308/8-460F     | DCMAMY37PNM-A101-FO |
| M24308/8-461Z     | DDMAMY50PNM-FO      |
| M24308/8-461F     | DDMAMY50PNM-A101-FO |
| M24308/8-462Z     | DEMAMY15PNM-FO      |
| M24308/8-462F     | DEMAMY15PNM-A101-FO |
| M24308/8-463Z     | DAMAMY26PNM-FO      |

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|-------------------|---------------------|
| M24308/8-463F     | DAMAMY26PNM-A101-FO |
| M24308/8-464Z     | DBMAMY44PNM-FO      |
| M24308/8-464F     | DBMAMY44PNM-A101-FO |
| M24308/8-465Z     | DCMAMY62PNM-FO      |
| M24308/8-465F     | DCMAMY62PNM-A101-FO |
| M24308/8-466Z     | DDMAMY78PNM-FO      |
| M24308/8-466F     | DDMAMY78PNM-A101-FO |
| M24308/9-1        | DEH9P002            |
| M24308/9-2        | DAH15P002           |
| M24308/9-3        | DBH25P002           |
| M24308/9-4        | DCH37P002           |
| M24308/9-5        | DDH50P002           |
| M24308/9-6        | DEH9P001            |
| M24308/9-7        | DAH15P001           |
| M24308/9-8        | DBH25P001           |
| M24308/9-9        | DCH37P001           |
| M24308/9-10       | DDH50P001           |
| M24308/9-11       | DEH9P202            |
| M24308/9-12       | DAH15P202           |
| M24308/9-13       | DBH25P202           |
| M24308/9-14       | DCH37P202           |
| M24308/9-15       | DDH50P202           |
| M24308/9-16       | DEH9P201            |
| M24308/9-17       | DAH15P201           |
| M24308/9-18       | DBH25P201           |
| M24308/9-19       | DCH37P201           |
| M24308/9-20       | DDH50P201           |
| M24308/23-1Z      | DEM9SM              |
| M24308/23-1F      | DEM9SM-A101         |
| M24308/23-1P      | DEM9SM-F225         |
| M24308/23-2Z      | DAMM15SM            |
| M24308/23-2F      | DAMM15SM-A101       |
| M24308/23-2P      | DAMM15SM-F225       |
| M24308/23-3Z      | DBMM25SM            |
| M24308/23-3F      | DBMM25SM-A101       |
| M24308/23-3P      | DBMM25SM-F225       |
| M24308/23-4Z      | DCMM37SM            |
| M24308/23-4F      | DCMM37SM-A101       |
| M24308/23-4P      | DCMM37SM-F225       |
| M24308/23-5Z      | DDMM50SM            |
| M24308/23-5F      | DDMM50SM-A101       |
| M24308/23-5P      | DDMM50SM-F225       |
| M24308/23-7Z      | DEM9SZ              |
| M24308/23-7F      | DEM9SZ-A101         |
| M24308/23-7P      | DEM9SZ-F225         |
| M24308/23-8Z      | DAMM15SZ            |
| M24308/23-8F      | DAMM15SZ-A101       |
| M24308/23-8P      | DAMM15SZ-F225       |
| M24308/23-9Z      | DBMM25SZ            |
| M24308/23-9F      | DBMM25SZ-A101       |
| M24308/23-9P      | DBMM25SZ-F225       |
| M24308/23-10Z     | DCMM37SZ            |
| M24308/23-10F     | DCMM37SZ-A101       |
| M24308/23-10P     | DCMM37SZ-F225       |
| M24308/23-11Z     | DDMM50SZ            |
| M24308/23-11F     | DDMM50SZ-A101       |
| M24308/23-11P     | DDMM50SZ-F225       |
| M24308/23-13Z     | DEM9SH              |
| M24308/23-13F     | DEM9SH-A101         |

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/23-13P     | DEM9SH-F225     |
| M24308/23-14Z     | DAMM15SH        |
| M24308/23-14F     | DAMM15SH-A101   |
| M24308/23-14P     | DAMM15SH-F225   |
| M24308/23-15Z     | DBMM25SH        |
| M24308/23-15F     | DBMM25SH-A101   |
| M24308/23-15P     | DBMM25SH-F225   |
| M24308/23-16Z     | DCMM37SH        |
| M24308/23-16F     | DCMM37SH-A101   |
| M24308/23-16P     | DCMM37SH-F225   |
| M24308/23-17Z     | DDMM50SH        |
| M24308/23-17F     | DDMM50SH-A101   |
| M24308/23-17P     | DDMM50SH-F225   |
| M24308/23-19Z     | DEM9SX          |
| M24308/23-19F     | DEM9SX-A101     |
| M24308/23-19P     | DEM9SX-F225     |
| M24308/23-20Z     | DAMM15SX        |
| M24308/23-20F     | DAMM15SX-A101   |
| M24308/23-20P     | DAMM15SX-F225   |
| M24308/23-21Z     | DBMM25SX        |
| M24308/23-21F     | DBMM25SX-A101   |
| M24308/23-21P     | DBMM25SX-F225   |
| M24308/23-22Z     | DCMM37SX        |
| M24308/23-22F     | DCMM37SX-A101   |
| M24308/23-22P     | DCMM37SX-F225   |
| M24308/23-23Z     | DDMM50SX        |
| M24308/23-23F     | DDMM50SX-A101   |
| M24308/23-23P     | DDMM50SX-F225   |
| M24308/23-25Z     | DEM9SD          |
| M24308/23-25F     | DEM9SD-A101     |
| M24308/23-26Z     | DAMM15SD        |
| M24308/23-26F     | DAMM15SD-A101   |
| M24308/23-27Z     | DBMM25SD        |
| M24308/23-27F     | DBMM25SD-A101   |
| M24308/23-28Z     | DCMM37SD        |
| M24308/23-28F     | DCMM37SD-A101   |
| M24308/23-29Z     | DDMM50SD        |
| M24308/23-29F     | DDMM50SD-A101   |
| M24308/23-31Z     | DEM9SL          |
| M24308/23-31F     | DEM9SL-A101     |
| M24308/23-32Z     | DAMM15SL        |
| M24308/23-32F     | DAMM15SL-A101   |
| M24308/23-33Z     | DBMM25SL        |
| M24308/23-33F     | DBMM25SL-A101   |
| M24308/23-34Z     | DCMM37SL        |
| M24308/23-34F     | DCMM37SL-A101   |
| M24308/23-35Z     | DDMM50SL        |
| M24308/23-35F     | DDMM50SL-A101   |
| M24308/23-37Z     | DEM9SA          |
| M24308/23-37F     | DEM9SA-A101     |
| M24308/23-38Z     | DAMM15SA        |
| M24308/23-38F     | DAMM15SA-A101   |
| M24308/23-39Z     | DBMM25SA        |
| M24308/23-39F     | DBMM25SA-A101   |
| M24308/23-40Z     | DCMM37SA        |
| M24308/23-40F     | DCMM37SA-A101   |
| M24308/23-41Z     | DDMM50SA        |
| M24308/23-41F     | DDMM50SA-A101   |
| M24308/23-43Z     | DEM9SG          |

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Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/23-43F     | DEM9SG-A101     |
| M24308/23-44Z     | DAMM15SG        |
| M24308/23-44F     | DAMM15SG-A101   |
| M24308/23-45Z     | DBMM25SG        |
| M24308/23-45F     | DBMM25SG-A101   |
| M24308/23-46Z     | DCMM37SG        |
| M24308/23-46F     | DCMM37SG-A101   |
| M24308/23-47Z     | DDMM50SG        |
| M24308/23-47F     | DDMM50SG-A101   |
| M24308/23-49Z     | DEM9SS          |
| M24308/23-49F     | DEM9SS-A101     |
| M24308/23-50Z     | DAMM15SS        |
| M24308/23-50F     | DAMM15SS-A101   |
| M24308/23-51Z     | DBMM25SS        |
| M24308/23-51F     | DBMM25SS-A101   |
| M24308/23-52Z     | DCMM37SS        |
| M24308/23-52F     | DCMM37SS-A101   |
| M24308/23-53Z     | DDMM50SS        |
| M24308/23-53F     | DDMM50SS-A101   |
| M24308/23-55Z     | DEM9SW          |
| M24308/23-55F     | DEM9SW-A101     |
| M24308/23-56Z     | DAMM15SW        |
| M24308/23-56F     | DAMM15SW-A101   |
| M24308/23-57Z     | DBMM25SW        |
| M24308/23-57F     | DBMM25SW-A101   |
| M24308/23-58Z     | DCMM37SW        |
| M24308/23-58F     | DCMM37SW-A101   |
| M24308/23-59Z     | DDMM50SW        |
| M24308/23-59F     | DDMM50SW-A101   |
| M24308/23-61Z     | DEMAM15SM       |
| M24308/23-61F     | DEMAM15SM-A101  |
| M24308/23-61P     | DEMAM15SM-F225  |
| M24308/23-62Z     | DAMAM25SM       |
| M24308/23-62F     | DAMAM25SM-A101  |
| M24308/23-62P     | DAMAM25SM-F225  |
| M24308/23-63Z     | DBMAM44SM       |
| M24308/23-63F     | DBMAM44SM-A101  |
| M24308/23-63P     | DBMAM44SM-F225  |
| M24308/23-64Z     | DCMAM62SM       |
| M24308/23-64F     | DCMAM62SM-A101  |
| M24308/23-64P     | DCMAM62SM-F225  |
| M24308/23-65Z     | DDMAM78SM       |
| M24308/23-65F     | DDMAM78SM-A101  |
| M24308/23-65P     | DDMAM78SM-F225  |
| M24308/23-67Z     | DEMAM15SQ       |
| M24308/23-67F     | DEMAM15SQ-A101  |
| M24308/23-67P     | DEMAM15SQ-F225  |
| M24308/23-68Z     | DAMAM25SQ       |
| M24308/23-68F     | DAMAM25SQ-A101  |
| M24308/23-68P     | DAMAM25SQ-F225  |
| M24308/23-69Z     | DBMAM44SQ       |
| M24308/23-69F     | DBMAM44SQ-A101  |
| M24308/23-69P     | DBMAM44SQ-F225  |
| M24308/23-70Z     | DCMAM62SQ       |
| M24308/23-70F     | DCMAM62SQ-A101  |
| M24308/23-70P     | DCMAM62SQ-F225  |
| M24308/23-71Z     | DDMAM78SQ       |
| M24308/23-71F     | DDMAM78SQ-A101  |
| M24308/23-71P     | DDMAM78SQ-F225  |

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/23-73Z     | DEMAM15SA       |
| M24308/23-73F     | DEMAM15SA-A101  |
| M24308/23-74Z     | DAMAM25SA       |
| M24308/23-74F     | DAMAM25SA-A101  |
| M24308/23-75Z     | DBMAM44SA       |
| M24308/23-75F     | DBMAM44SA-A101  |
| M24308/23-76Z     | DCMAM62SA       |
| M24308/23-76F     | DCMAM62SA-A101  |
| M24308/23-77Z     | DDMAM78SA       |
| M24308/23-77F     | DDMAM78SA-A101  |
| M24308/23-101     | DEM9SMNMBK52    |
| M24308/23-102     | DAMM15SMNMBK52  |
| M24308/23-103     | DBMM25SMNMBK52  |
| M24308/23-104     | DCMM37SMNMBK52  |
| M24308/23-105     | DDMM50SMNMBK52  |
| M24308/23-107     | DEM9SZNMBK52    |
| M24308/23-108     | DAMM15SZNMBK52  |
| M24308/23-109     | DBMM25SZNMBK52  |
| M24308/23-110     | DCMM37SZNMBK52  |
| M24308/23-111     | DDMM50SZNMBK52  |
| M24308/23-113     | DEM9SHNMBK52    |
| M24308/23-114     | DAMM15SHNMBK52  |
| M24308/23-115     | DBMM25SHNMBK52  |
| M24308/23-116     | DCMM37SHNMBK52  |
| M24308/23-117     | DDMM50SHNMBK52  |
| M24308/23-119     | DEM9SXNMBK52    |
| M24308/23-120     | DAMM15SXNMBK52  |
| M24308/23-121     | DBMM25SXNMBK52  |
| M24308/23-122     | DCMM37SXNMBK52  |
| M24308/23-123     | DDMM50SXNMBK52  |
| M24308/23-125     | DEM9SDNMBK52    |
| M24308/23-126     | DAMM15SDNMBK52  |
| M24308/23-127     | DBMM25SDNMBK52  |
| M24308/23-128     | DCMM37SDNMBK52  |
| M24308/23-129     | DDMM50SDNMBK52  |
| M24308/23-131     | DEM9SLNMBK52    |
| M24308/23-132     | DAMM15SLNMBK52  |
| M24308/23-133     | DBMM25SLNMBK52  |
| M24308/23-134     | DCMM37SLNMBK52  |
| M24308/23-135     | DDMM50SLNMBK52  |
| M24308/23-137     | DEM9SANMBK52    |
| M24308/23-138     | DAMM15SANMBK52  |
| M24308/23-139     | DBMM25SANMBK52  |
| M24308/23-140     | DCMM37SANMBK52  |
| M24308/23-141     | DDMM50SANMBK52  |
| M24308/23-143     | DEM9SGNMBK52    |
| M24308/23-144     | DAMM15SGNMBK52  |
| M24308/23-145     | DBMM25SGNMBK52  |
| M24308/23-146     | DCMM37SGNMBK52  |
| M24308/23-147     | DDMM50SGNMBK52  |
| M24308/23-149     | DEM9SSNMBK52    |
| M24308/23-150     | DAMM15SSNMBK52  |
| M24308/23-151     | DBMM25SSNMBK52  |
| M24308/23-152     | DCMM37SSNMBK52  |
| M24308/23-153     | DDMM50SSNMBK52  |
| M24308/23-155     | DEM9SWNMBK52    |
| M24308/23-156     | DAMM15SWNMBK52  |
| M24308/23-157     | DBMM25SWNMBK52  |
| M24308/23-158     | DCMM37SWNMBK52  |

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/23-159     | DDMM50SWNMBK52  |
| M24308/23-161Z    | DEMAM15SMNMBK52 |
| M24308/23-162Z    | DAMAM25SMNMBK52 |
| M24308/23-163Z    | DBMAM44SMNMBK52 |
| M24308/23-164Z    | DCMAM62SMNMBK52 |
| M24308/23-165Z    | DDMAM78SMNMBK52 |
| M24308/23-167Z    | DEMAM15SQNMBK52 |
| M24308/23-168Z    | DAMAM25SQNMBK52 |
| M24308/23-169Z    | DBMAM44SQNMBK52 |
| M24308/23-170Z    | DCMAM62SQNMBK52 |
| M24308/23-171Z    | DDMAM78SQNMBK52 |
| M24308/23-173Z    | DEMAM15SANMBK52 |
| M24308/23-174Z    | DAMAM25SANMBK52 |
| M24308/23-175Z    | DBMAM44SANMBK52 |
| M24308/23-176Z    | DCMAM62SANMBK52 |
| M24308/23-177Z    | DDMAM78SANMBK52 |
| M24308/23-201Z    | DEM9SMNM        |
| M24308/23-201F    | DEM9SMNM-A101   |
| M24308/23-201P    | DEM9SMNM-F225   |
| M24308/23-202Z    | DAMM15SMNM      |
| M24308/23-202F    | DAMM15SMNM-A101 |
| M24308/23-202P    | DAMM15SMNM-F225 |
| M24308/23-203Z    | DBMM25SMNM      |
| M24308/23-203F    | DBMM25SMNM-A101 |
| M24308/23-203P    | DBMM25SMNM-F225 |
| M24308/23-204Z    | DCMM37SMNM      |
| M24308/23-204F    | DCMM37SMNM-A101 |
| M24308/23-204P    | DCMM37SMNM-F225 |
| M24308/23-205Z    | DDMM50SMNM      |
| M24308/23-205F    | DDMM50SMNM-A101 |
| M24308/23-205P    | DDMM50SMNM-F225 |
| M24308/23-207Z    | DEM9SZNM        |
| M24308/23-207F    | DEM9SZNM-A101   |
| M24308/23-207P    | DEM9SZNM-F225   |
| M24308/23-208Z    | DAMM15SZNM      |
| M24308/23-208F    | DAMM15SZNM-A101 |
| M24308/23-208P    | DAMM15SZNM-F225 |
| M24308/23-209Z    | DBMM25SZNM      |
| M24308/23-209F    | DBMM25SZNM-A101 |
| M24308/23-209P    | DBMM25SZNM-F225 |
| M24308/23-210Z    | DCMM37SZNM      |
| M24308/23-210F    | DCMM37SZNM-A101 |
| M24308/23-210P    | DCMM37SZNM-F225 |
| M24308/23-211Z    | DDMM50SZNM      |
| M24308/23-211F    | DDMM50SZNM-A101 |
| M24308/23-211P    | DDMM50SZNM-F225 |
| M24308/23-213Z    | DEM9SHNM        |
| M24308/23-213F    | DEM9SHNM-A101   |
| M24308/23-213P    | DEM9SHNM-F225   |
| M24308/23-214Z    | DAMM15SHNM      |
| M24308/23-214F    | DAMM15SHNM-A101 |
| M24308/23-214P    | DAMM15SHNM-F225 |
| M24308/23-215Z    | DBMM25SHNM      |
| M24308/23-215F    | DBMM25SHNM-A101 |
| M24308/23-215P    | DBMM25SHNM-F225 |
| M24308/23-216Z    | DCMM37SHNM      |
| M24308/23-216F    | DCMM37SHNM-A101 |
| M24308/23-216P    | DCMM37SHNM-F225 |
| M24308/23-217Z    | DDMM50SHNM      |

Dimensions shown in inches (mm)  
 Specifications and dimensions subject to change



# M24308 Cross Reference

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/23-217F    | DDMM50SHNM-A101 |
| M24308/23-217P    | DDMM50SHNM-F225 |
| M24308/23-219Z    | DEM9SXNM        |
| M24308/23-219F    | DEM9SXNM-A101   |
| M24308/23-219P    | DEM9SXNM-F225   |
| M24308/23-220Z    | DAMM15SXNM      |
| M24308/23-220F    | DAMM15SXNM-A101 |
| M24308/23-220P    | DAMM15SXNM-F225 |
| M24308/23-221Z    | DBMM25SXNM      |
| M24308/23-221F    | DBMM25SXNM-A101 |
| M24308/23-221P    | DBMM25SXNM-F225 |
| M24308/23-222Z    | DCMM37SXNM      |
| M24308/23-222F    | DCMM37SXNM-A101 |
| M24308/23-222P    | DCMM37SXNM-F225 |
| M24308/23-223Z    | DDMM50SXNM      |
| M24308/23-223F    | DDMM50SXNM-A101 |
| M24308/23-223P    | DDMM50SXNM-F225 |
| M24308/23-225Z    | DEM9SDNM        |
| M24308/23-225F    | DEM9SDNM-A101   |
| M24308/23-226Z    | DAMM15SDNM      |
| M24308/23-226F    | DAMM15SDNM-A101 |
| M24308/23-227Z    | DBMM25SDNM      |
| M24308/23-227F    | DBMM25SDNM-A101 |
| M24308/23-228Z    | DCMM37SDNM      |
| M24308/23-228F    | DCMM37SDNM-A101 |
| M24308/23-229Z    | DDMM50SDNM      |
| M24308/23-229F    | DDMM50SDNM-A101 |
| M24308/23-231Z    | DEM9SLNM        |
| M24308/23-231F    | DEM9SLNM-A101   |
| M24308/23-232Z    | DAMM15SLNM      |
| M24308/23-232F    | DAMM15SLNM-A101 |
| M24308/23-233Z    | DBMM25SLNM      |
| M24308/23-233F    | DBMM25SLNM-A101 |
| M24308/23-234Z    | DCMM37SLNM      |
| M24308/23-234F    | DCMM37SLNM-A101 |
| M24308/23-235Z    | DDMM50SLNM      |
| M24308/23-235F    | DDMM50SLNM-A101 |
| M24308/23-237Z    | DEM9SANM        |
| M24308/23-237F    | DEM9SANM-A101   |
| M24308/23-238Z    | DAMM15SANM      |
| M24308/23-238F    | DAMM15SANM-A101 |
| M24308/23-239Z    | DBMM25SANM      |
| M24308/23-239F    | DBMM25SANM-A101 |
| M24308/23-240Z    | DCMM37SANM      |
| M24308/23-240F    | DCMM37SANM-A101 |
| M24308/23-241Z    | DDMM50SANM      |
| M24308/23-241F    | DDMM50SANM-A101 |
| M24308/23-243Z    | DEM9SGNM        |
| M24308/23-243F    | DEM9SGNM-A101   |
| M24308/23-244Z    | DAMM15SGNM      |
| M24308/23-244F    | DAMM15SGNM-A101 |
| M24308/23-245Z    | DBMM25SGNM      |
| M24308/23-245F    | DBMM25SGNM-A101 |
| M24308/23-246Z    | DCMM37SGNM      |
| M24308/23-246F    | DCMM37SGNM-A101 |
| M24308/23-247Z    | DDMM50SGNM      |
| M24308/23-247F    | DDMM50SGNM-A101 |
| M24308/23-249Z    | DEM9SSNM        |
| M24308/23-249F    | DEM9SSNM-A101   |

| Gov't Designation | ITT Part Number  |
|-------------------|------------------|
| M24308/23-250Z    | DAMM15SSNM       |
| M24308/23-250F    | DAMM15SSNM-A101  |
| M24308/23-251Z    | DBMM25SSNM       |
| M24308/23-251F    | DBMM25SSNM-A101  |
| M24308/23-252Z    | DCMM37SSNM       |
| M24308/23-252F    | DCMM37SSNM-A101  |
| M24308/23-253Z    | DDMM50SSNM       |
| M24308/23-253F    | DDMM50SSNM-A101  |
| M24308/23-255Z    | DEM9SWNM         |
| M24308/23-255F    | DEM9SWNM-A101    |
| M24308/23-256Z    | DAMM15SWNM       |
| M24308/23-256F    | DAMM15SWNM-A101  |
| M24308/23-257Z    | DBMM25SWNM       |
| M24308/23-257F    | DBMM25SWNM-A101  |
| M24308/23-258Z    | DCMM37SWNM       |
| M24308/23-258F    | DCMM37SWNM-A101  |
| M24308/23-259Z    | DDMM50SWNM       |
| M24308/23-259F    | DDMM50SWNM-A101  |
| M24308/23-261Z    | DEMAM15SMNM      |
| M24308/23-261F    | DEMAM15SMNM-A101 |
| M24308/23-261P    | DEMAM15SMNM-F225 |
| M24308/23-262Z    | DAMAM25SMNM      |
| M24308/23-262F    | DAMAM25SMNM-A101 |
| M24308/23-262P    | DAMAM25SMNM-F225 |
| M24308/23-263Z    | DBMAM44SMNM      |
| M24308/23-263F    | DBMAM44SMNM-A101 |
| M24308/23-263P    | DBMAM44SMNM-F225 |
| M24308/23-264Z    | DCMAM62SMNM      |
| M24308/23-264F    | DCMAM62SMNM-A101 |
| M24308/23-264P    | DCMAM62SMNM-F225 |
| M24308/23-265Z    | DDMAM78SMNM      |
| M24308/23-265F    | DDMAM78SMNM-A101 |
| M24308/23-265P    | DDMAM78SMNM-F225 |
| M24308/23-267Z    | DEMAM15SQNM      |
| M24308/23-267F    | DEMAM15SQNM-A101 |
| M24308/23-267P    | DEMAM15SQNM-F225 |
| M24308/23-268Z    | DAMAM25SQNM      |
| M24308/23-268F    | DAMAM25SQNM-A101 |
| M24308/23-268P    | DAMAM25SQNM-F225 |
| M24308/23-269Z    | DBMAM44SQNM      |
| M24308/23-269F    | DBMAM44SQNM-A101 |
| M24308/23-269P    | DBMAM44SQNM-F225 |
| M24308/23-270Z    | DCMAM62SQNM      |
| M24308/23-270F    | DCMAM62SQNM-A101 |
| M24308/23-270P    | DCMAM62SQNM-F225 |
| M24308/23-271Z    | DDMAM78SQNM      |
| M24308/23-271F    | DDMAM78SQNM-A101 |
| M24308/23-271P    | DDMAM78SQNM-F225 |
| M24308/23-273Z    | DEMAM15SANM      |
| M24308/23-273F    | DEMAM15SANM-A101 |
| M24308/23-274Z    | DAMAM25SANM      |
| M24308/23-274F    | DAMAM25SANM-A101 |
| M24308/23-275Z    | DBMAM44SANM      |
| M24308/23-275F    | DBMAM44SANM-A101 |
| M24308/23-276Z    | DCMAM62SANM      |
| M24308/23-276F    | DCMAM62SANM-A101 |
| M24308/23-277Z    | DDMAM78SANM      |
| M24308/23-277F    | DDMAM78SANM-A101 |
| M24308/24-1Z      | DEM9PM           |

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/24-1F      | DEM9PM-A101     |
| M24308/24-1P      | DEM9PM-F225     |
| M24308/24-2Z      | DAMM15PM        |
| M24308/24-2F      | DAMM15PM-A101   |
| M24308/24-2P      | DAMM15PM-F225   |
| M24308/24-3Z      | DBMM25PM        |
| M24308/24-3F      | DBMM25PM-A101   |
| M24308/24-3P      | DBMM25PM-F225   |
| M24308/24-4Z      | DCMM37PM        |
| M24308/24-4F      | DCMM37PM-A101   |
| M24308/24-4P      | DCMM37PM-F225   |
| M24308/24-5Z      | DDMM50PM        |
| M24308/24-5F      | DDMM50PM-A101   |
| M24308/24-5P      | DDMM50PM-F225   |
| M24308/24-7Z      | DEM9PZ          |
| M24308/24-7F      | DEM9PZ-A101     |
| M24308/24-7P      | DEM9PZ-F225     |
| M24308/24-8Z      | DAMM15PZ        |
| M24308/24-8F      | DAMM15PZ-A101   |
| M24308/24-8P      | DAMM15PZ-F225   |
| M24308/24-9Z      | DBMM25PZ        |
| M24308/24-9F      | DBMM25PZ-A101   |
| M24308/24-9P      | DBMM25PZ-F225   |
| M24308/24-10Z     | DCMM37PZ        |
| M24308/24-10F     | DCMM37PZ-A101   |
| M24308/24-10P     | DCMM37PZ-F225   |
| M24308/24-11Z     | DDMM50PZ        |
| M24308/24-11F     | DDMM50PZ-A101   |
| M24308/24-11P     | DDMM50PZ-F225   |
| M24308/24-13Z     | DEM9PH          |
| M24308/24-13F     | DEM9PH-A101     |
| M24308/24-13P     | DEM9PH-F225     |
| M24308/24-14Z     | DAMM15PH        |
| M24308/24-14F     | DAMM15PH-A101   |
| M24308/24-14P     | DAMM15PH-F225   |
| M24308/24-15Z     | DBMM25PH        |
| M24308/24-15F     | DBMM25PH-A101   |
| M24308/24-15P     | DBMM25PH-F225   |
| M24308/24-16Z     | DCMM37PH        |
| M24308/24-16F     | DCMM37PH-A101   |
| M24308/24-16P     | DCMM37PH-F225   |
| M24308/24-17Z     | DDMM50PH        |
| M24308/24-17F     | DDMM50PH-A101   |
| M24308/24-17P     | DDMM50PH-F225   |
| M24308/24-19Z     | DEM9PX          |
| M24308/24-19F     | DEM9PX-A101     |
| M24308/24-19P     | DEM9PX-F225     |
| M24308/24-20Z     | DAMM15PX        |
| M24308/24-20F     | DAMM15PX-A101   |
| M24308/24-20P     | DAMM15PX-F225   |
| M24308/24-21Z     | DBMM25PX        |
| M24308/24-21F     | DBMM25PX-A101   |
| M24308/24-21P     | DBMM25PX-F225   |
| M24308/24-22Z     | DCMM37PX        |
| M24308/24-22F     | DCMM37PX-A101   |
| M24308/24-22P     | DCMM37PX-F225   |
| M24308/24-23Z     | DDMM50PX        |
| M24308/24-23F     | DDMM50PX-A101   |
| M24308/24-23P     | DDMM50PX-F225   |

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Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/24-25Z     | DEMM9PD         |
| M24308/24-25F     | DEMM9PD-A101    |
| M24308/24-26Z     | DAMM15PD        |
| M24308/24-26F     | DAMM15PD-A101   |
| M24308/24-27Z     | DBMM25PD        |
| M24308/24-27F     | DBMM25PD-A101   |
| M24308/24-28Z     | DCMM37PD        |
| M24308/24-28F     | DCMM37PD-A101   |
| M24308/24-29Z     | DDMM50PD        |
| M24308/24-29F     | DDMM50PD-A101   |
| M24308/24-31Z     | DEMM9PL         |
| M24308/24-31F     | DEMM9PL-A101    |
| M24308/24-32Z     | DAMM15PL        |
| M24308/24-32F     | DAMM15PL-A101   |
| M24308/24-33Z     | DBMM25PL        |
| M24308/24-33F     | DBMM25PL-A101   |
| M24308/24-34Z     | DCMM37PL        |
| M24308/24-34F     | DCMM37PL-A101   |
| M24308/24-35Z     | DDMM50PL        |
| M24308/24-35F     | DDMM50PL-A101   |
| M24308/24-37Z     | DEMM9PA         |
| M24308/24-37F     | DEMM9PA-A101    |
| M24308/24-38Z     | DAMM15PA        |
| M24308/24-38F     | DAMM15PA-A101   |
| M24308/24-39Z     | DBMM25PA        |
| M24308/24-39F     | DBMM25PA-A101   |
| M24308/24-40Z     | DCMM37PA        |
| M24308/24-40F     | DCMM37PA-A101   |
| M24308/24-41Z     | DDMM50PA        |
| M24308/24-41F     | DDMM50PA-A101   |
| M24308/24-43Z     | DEMM9PG         |
| M24308/24-43F     | DEMM9PG-A101    |
| M24308/24-44Z     | DAMM15PG        |
| M24308/24-44F     | DAMM15PG-A101   |
| M24308/24-45Z     | DBMM25PG        |
| M24308/24-45F     | DBMM25PG-A101   |
| M24308/24-46Z     | DCMM37PG        |
| M24308/24-46F     | DCMM37PG-A101   |
| M24308/24-47Z     | DDMM50PG        |
| M24308/24-47F     | DDMM50PG-A101   |
| M24308/24-49Z     | DEMM9PS         |
| M24308/24-49F     | DEMM9PS-A101    |
| M24308/24-50Z     | DAMM15PS        |
| M24308/24-50F     | DAMM15PS-A101   |
| M24308/24-51Z     | DBMM25PS        |
| M24308/24-51F     | DBMM25PS-A101   |
| M24308/24-52Z     | DCMM37PS        |
| M24308/24-52F     | DCMM37PS-A101   |
| M24308/24-53Z     | DDMM50PS        |
| M24308/24-53F     | DDMM50PS-A101   |
| M24308/24-55Z     | DEMM9PW         |
| M24308/24-55F     | DEMM9PW-A101    |
| M24308/24-56Z     | DAMM15PW        |
| M24308/24-56F     | DAMM15PW-A101   |
| M24308/24-57Z     | DBMM25PW        |
| M24308/24-57F     | DBMM25PW-A101   |
| M24308/24-58Z     | DCMM37PW        |
| M24308/24-58F     | DCMM37PW-A101   |
| M24308/24-59Z     | DDMM50PW        |

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/24-59F     | DDMM50PW-A101   |
| M24308/24-61Z     | DEMAM15PM       |
| M24308/24-61F     | DEMAM15PM-A101  |
| M24308/24-61P     | DEMAM15PM-F225  |
| M24308/24-62Z     | DAMAM25PM       |
| M24308/24-62F     | DAMAM25PM-A101  |
| M24308/24-62P     | DAMAM25PM-F225  |
| M24308/24-63Z     | DBMAM44PM       |
| M24308/24-63F     | DBMAM44PM-A101  |
| M24308/24-63P     | DBMAM44PM-F225  |
| M24308/24-64Z     | DCMAM62PM       |
| M24308/24-64F     | DCMAM62PM-A101  |
| M24308/24-64P     | DCMAM62PM-F225  |
| M24308/24-65Z     | DDMAM78PM       |
| M24308/24-65F     | DDMAM78PM-A101  |
| M24308/24-65P     | DDMAM78PM-F225  |
| M24308/24-67Z     | DEMAM15PQ       |
| M24308/24-67F     | DEMAM15PQ-A101  |
| M24308/24-67P     | DEMAM15PQ-F225  |
| M24308/24-68Z     | DAMAM25PQ       |
| M24308/24-68F     | DAMAM25PQ-A101  |
| M24308/24-68P     | DAMAM25PQ-F225  |
| M24308/24-69Z     | DBMAM44PQ       |
| M24308/24-69F     | DBMAM44PQ-A101  |
| M24308/24-69P     | DBMAM44PQ-F225  |
| M24308/24-70Z     | DCMAM62PQ       |
| M24308/24-70F     | DCMAM62PQ-A101  |
| M24308/24-70P     | DCMAM62PQ-F225  |
| M24308/24-71Z     | DDMAM78PQ       |
| M24308/24-71F     | DDMAM78PQ-A101  |
| M24308/24-71P     | DDMAM78PQ-F225  |
| M24308/24-73Z     | DEMAM15PA       |
| M24308/24-73F     | DEMAM15PA-A101  |
| M24308/24-73P     | DEMAM15PA-F225  |
| M24308/24-74Z     | DAMAM25PA       |
| M24308/24-74F     | DAMAM25PA-A101  |
| M24308/24-74P     | DAMAM25PA-F225  |
| M24308/24-75Z     | DBMAM44PA       |
| M24308/24-75F     | DBMAM44PA-A101  |
| M24308/24-75P     | DBMAM44PA-F225  |
| M24308/24-76Z     | DCMAM62PA       |
| M24308/24-76F     | DCMAM62PA-A101  |
| M24308/24-76P     | DCMAM62PA-F225  |
| M24308/24-77Z     | DDMAM78PA       |
| M24308/24-77F     | DDMAM78PA-A101  |
| M24308/24-77P     | DDMAM78PA-F225  |
| M24308/24-101     | DEMM9PMNMBK52   |
| M24308/24-102     | DAMM15PMNMBK52  |
| M24308/24-103     | DBMM25PMNMBK52  |
| M24308/24-104     | DCMM37PMNMBK52  |
| M24308/24-105     | DDMM50PMNMBK52  |
| M24308/24-107     | DEMM9PZNMNBK52  |
| M24308/24-108     | DAMM15PZNMNBK52 |
| M24308/24-109     | DBMM25PZNMNBK52 |
| M24308/24-110     | DCMM37PZNMNBK52 |
| M24308/24-111     | DDMM50PZNMNBK52 |
| M24308/24-113     | DEMM9PHNMBK52   |
| M24308/24-114     | DAMM15PHNMBK52  |
| M24308/24-115     | DBMM25PHNMBK52  |

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/24-115     | DBMM25PHNMBK52  |
| M24308/24-116     | DCMM37PHNMBK52  |
| M24308/24-117     | DDMM50PHNMBK52  |
| M24308/24-119     | DEMM9PXNMBK52   |
| M24308/24-120     | DAMM15PXNMBK52  |
| M24308/24-121     | DBMM25PXNMBK52  |
| M24308/24-122     | DCMM37PXNMBK52  |
| M24308/24-123     | DDMM50PXNMBK52  |
| M24308/24-125     | DEMM9PDNMBK52   |
| M24308/24-126     | DAMM15PDNMBK52  |
| M24308/24-127     | DBMM25PDNMBK52  |
| M24308/24-128     | DCMM37PDNMBK52  |
| M24308/24-129     | DDMM50PDNMBK52  |
| M24308/24-131     | DEMM9PLNMBK52   |
| M24308/24-132     | DAMM15PLNMBK52  |
| M24308/24-133     | DBMM25PLNMBK52  |
| M24308/24-134     | DCMM37PLNMBK52  |
| M24308/24-135     | DDMM50PLNMBK52  |
| M24308/24-137     | DEMM9PANMBK52   |
| M24308/24-138     | DAMM15PANMBK52  |
| M24308/24-139     | DBMM25PANMBK52  |
| M24308/24-140     | DCMM37PANMBK52  |
| M24308/24-141     | DDMM50PANMBK52  |
| M24308/24-143     | DEMM9PGNMBK52   |
| M24308/24-144     | DAMM15PGNMBK52  |
| M24308/24-145     | DBMM25PGNMBK52  |
| M24308/24-146     | DCMM37PGNMBK52  |
| M24308/24-147     | DDMM50PGNMBK52  |
| M24308/24-149     | DEMM9PSNMBK52   |
| M24308/24-150     | DAMM15PSNMBK52  |
| M24308/24-151     | DBMM25PSNMBK52  |
| M24308/24-152     | DCMM37PSNMBK52  |
| M24308/24-153     | DDMM50PSNMBK52  |
| M24308/24-155     | DEMM9PWNMBK52   |
| M24308/24-156     | DAMM15PWNMBK52  |
| M24308/24-157     | DBMM25PWNMBK52  |
| M24308/24-158     | DCMM37PWNMBK52  |
| M24308/24-159     | DDMM50PWNMBK52  |
| M24308/24-161Z    | DEMAM15PMNMBK52 |
| M24308/24-162Z    | DAMAM25PMNMBK52 |
| M24308/24-163Z    | DBMAM44PMNMBK52 |
| M24308/24-164Z    | DCMAM62PMNMBK52 |
| M24308/24-165Z    | DDMAM78PMNMBK52 |
| M24308/24-167Z    | DEMAM15PQNMBK52 |
| M24308/24-168Z    | DAMAM25PQNMBK52 |
| M24308/24-169Z    | DBMAM44PQNMBK52 |
| M24308/24-170Z    | DCMAM62PQNMBK52 |
| M24308/24-171Z    | DDMAM78PQNMBK52 |
| M24308/24-173Z    | DEMAM15PANMBK52 |
| M24308/24-174Z    | DAMAM25PANMBK52 |
| M24308/24-175Z    | DBMAM44PANMBK52 |
| M24308/24-176Z    | DCMAM62PANMBK52 |
| M24308/24-177Z    | DDMAM78PANMBK52 |
| M24308/24-201Z    | DEMM9PMNM       |
| M24308/24-201F    | DEMM9PMNM-A101  |
| M24308/24-201P    | DEMM9PMNM-F225  |
| M24308/24-202Z    | DAMM15PMNM      |
| M24308/24-202F    | DAMM15PMNM-A101 |
| M24308/24-202P    | DAMM15PMNM-F225 |
| M24308/24-203Z    | DBMM25PMNM      |

Dimensions shown in inches (mm)  
 Specifications and dimensions subject to change



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# M24308 Cross Reference

| Gov't Designation | ITT Part Number |
|-------------------|-----------------|
| M24308/24-203F    | DBMM25PMNM-A101 |
| M24308/24-203P    | DBMM25PMNM-F225 |
| M24308/24-204Z    | DCMM37PMNM      |
| M24308/24-204F    | DCMM37PMNM-A101 |
| M24308/24-204P    | DCMM37PMNM-F225 |
| M24308/24-205Z    | DDMM50PMNM      |
| M24308/24-205F    | DDMM50PMNM-A101 |
| M24308/24-205P    | DDMM50PMNM-F225 |
| M24308/24-207Z    | DEMM9PZNM       |
| M24308/24-207F    | DEMM9PZNM-A101  |
| M24308/24-207P    | DEMM9PZNM-F225  |
| M24308/24-208Z    | DAMM15PZNM      |
| M24308/24-208F    | DAMM15PZNM-A101 |
| M24308/24-208P    | DAMM15PZNM-F225 |
| M24308/24-209Z    | DBMM25PZNM      |
| M24308/24-209F    | DBMM25PZNM-A101 |
| M24308/24-209P    | DBMM25PZNM-F225 |
| M24308/24-210Z    | DCMM37PZNM      |
| M24308/24-210F    | DCMM37PZNM-A101 |
| M24308/24-210P    | DCMM37PZNM-F225 |
| M24308/24-211Z    | DDMM50PZNM      |
| M24308/24-211F    | DDMM50PZNM-A101 |
| M24308/24-211P    | DDMM50PZNM-F225 |
| M24308/24-213Z    | DEMM9PHNM       |
| M24308/24-213F    | DEMM9PHNM-A101  |
| M24308/24-213P    | DEMM9PHNM-F225  |
| M24308/24-214Z    | DAMM15PHNM      |
| M24308/24-214F    | DAMM15PHNM-A101 |
| M24308/24-214P    | DAMM15PHNM-F225 |
| M24308/24-215Z    | DBMM25PHNM      |
| M24308/24-215F    | DBMM25PHNM-A101 |
| M24308/24-215P    | DBMM25PHNM-F225 |
| M24308/24-216Z    | DCMM37PHNM      |
| M24308/24-216F    | DCMM37PHNM-A101 |
| M24308/24-216P    | DCMM37PHNM-F225 |
| M24308/24-217Z    | DDMM50PHNM      |
| M24308/24-217F    | DDMM50PHNM-A101 |
| M24308/24-217P    | DDMM50PHNM-F225 |
| M24308/24-219Z    | DEMM9PXNM       |
| M24308/24-219F    | DEMM9PXNM-A101  |
| M24308/24-219P    | DEMM9PXNM-F225  |
| M24308/24-220Z    | DAMM15PXNM      |
| M24308/24-220F    | DAMM15PXNM-A101 |
| M24308/24-220P    | DAMM15PXNM-F225 |
| M24308/24-221Z    | DBMM25PXNM      |
| M24308/24-221F    | DBMM25PXNM-A101 |
| M24308/24-221P    | DBMM25PXNM-F225 |
| M24308/24-222Z    | DCMM37PXNM      |
| M24308/24-222F    | DCMM37PXNM-A101 |
| M24308/24-222P    | DCMM37PXNM-F225 |
| M24308/24-223Z    | DDMM50PXNM      |
| M24308/24-223F    | DDMM50PXNM-A101 |
| M24308/24-223P    | DDMM50PXNM-F225 |
| M24308/24-225Z    | DEMM9PDNM       |
| M24308/24-225F    | DEMM9PDNM-A101  |
| M24308/24-226Z    | DAMM15PDNM      |
| M24308/24-226F    | DAMM15PDNM-A101 |
| M24308/24-227Z    | DBMM25PDNM      |
| M24308/24-227F    | DBMM25PDNM-A101 |

| Gov't Designation | ITT Part Number  |
|-------------------|------------------|
| M24308/24-228Z    | DCMM37PDNM       |
| M24308/24-228F    | DCMM37PDNM-A101  |
| M24308/24-229Z    | DDMM50PDNM       |
| M24308/24-229F    | DDMM50PDNM-A101  |
| M24308/24-231Z    | DEMM9PLNM        |
| M24308/24-231F    | DEMM9PLNM-A101   |
| M24308/24-232Z    | DAMM15PLNM       |
| M24308/24-232F    | DAMM15PLNM-A101  |
| M24308/24-233Z    | DBMM25PLNM       |
| M24308/24-233F    | DBMM25PLNM-A101  |
| M24308/24-234Z    | DCMM37PLNM       |
| M24308/24-234F    | DCMM37PLNM-A101  |
| M24308/24-235Z    | DDMM50PLNM       |
| M24308/24-235F    | DDMM50PLNM-A101  |
| M24308/24-237Z    | DEMM9PANM        |
| M24308/24-237F    | DEMM9PANM-A101   |
| M24308/24-238Z    | DAMM15PANM       |
| M24308/24-238F    | DAMM15PANM-A101  |
| M24308/24-239Z    | DBMM25PANM       |
| M24308/24-239F    | DBMM25PANM-A101  |
| M24308/24-240Z    | DCMM37PANM       |
| M24308/24-240F    | DCMM37PANM-A101  |
| M24308/24-241Z    | DDMM50PANM       |
| M24308/24-241F    | DDMM50PANM-A101  |
| M24308/24-243Z    | DEMM9PGNM        |
| M24308/24-243F    | DEMM9PGNM-A101   |
| M24308/24-244Z    | DAMM15PGNM       |
| M24308/24-244F    | DAMM15PGNM-A101  |
| M24308/24-245Z    | DBMM25PGNM       |
| M24308/24-245F    | DBMM25PGNM-A101  |
| M24308/24-246Z    | DCMM37PGNM       |
| M24308/24-246F    | DCMM37PGNM-A101  |
| M24308/24-247Z    | DDMM50PGNM       |
| M24308/24-247F    | DDMM50PGNM-A101  |
| M24308/24-249Z    | DEMM9PSNM        |
| M24308/24-249F    | DEMM9PSNM-A101   |
| M24308/24-250Z    | DAMM15PSNM       |
| M24308/24-250F    | DAMM15PSNM-A101  |
| M24308/24-251Z    | DBMM25PSNM       |
| M24308/24-251F    | DBMM25PSNM-A101  |
| M24308/24-252Z    | DCMM37PSNM       |
| M24308/24-252F    | DCMM37PSNM-A101  |
| M24308/24-253Z    | DDMM50PSNM       |
| M24308/24-253F    | DDMM50PSNM-A101  |
| M24308/24-255Z    | DEMM9PWNM        |
| M24308/24-255F    | DEMM9PWNM-A101   |
| M24308/24-256Z    | DAMM15PWNM       |
| M24308/24-256F    | DAMM15PWNM-A101  |
| M24308/24-257Z    | DBMM25PWNM       |
| M24308/24-257F    | DBMM25PWNM-A101  |
| M24308/24-258Z    | DCMM37PWNM       |
| M24308/24-258F    | DCMM37PWNM-A101  |
| M24308/24-259Z    | DDMM50PWNM       |
| M24308/24-259F    | DDMM50PWNM-A101  |
| M24308/24-261Z    | DEMAM15PMNM      |
| M24308/24-261F    | DEMAM15PMNM-A101 |
| M24308/24-261P    | DEMAM15PMNM-F225 |
| M24308/24-262Z    | DAMAM25PMNM      |
| M24308/24-262F    | DAMAM25PMNM-A101 |

| Gov't Designation | ITT Part Number  |
|-------------------|------------------|
| M24308/24-262P    | DAMAM25PMNM-F225 |
| M24308/24-263Z    | DBMAM44PMNM      |
| M24308/24-263F    | DBMAM44PMNM-A101 |
| M24308/24-263P    | DBMAM44PMNM-F225 |
| M24308/24-264Z    | DCMAM62PMNM      |
| M24308/24-264F    | DCMAM62PMNM-A101 |
| M24308/24-264P    | DCMAM62PMNM-F225 |
| M24308/24-265Z    | DDMAM78PMNM      |
| M24308/24-265F    | DDMAM78PMNM-A101 |
| M24308/24-265P    | DDMAM78PMNM-F225 |
| M24308/24-267Z    | DEMAM15PQNM      |
| M24308/24-267F    | DEMAM15PQNM-A101 |
| M24308/24-267P    | DEMAM15PQNM-F225 |
| M24308/24-268Z    | DAMAM25PQNM      |
| M24308/24-268F    | DAMAM25PQNM-A101 |
| M24308/24-268P    | DAMAM25PQNM-F225 |
| M24308/24-269Z    | DBMAM44PQNM      |
| M24308/24-269F    | DBMAM44PQNM-A101 |
| M24308/24-269P    | DBMAM44PQNM-F225 |
| M24308/24-270Z    | DCMAM62PQNM      |
| M24308/24-270F    | DCMAM62PQNM-A101 |
| M24308/24-270P    | DCMAM62PQNM-F225 |
| M24308/24-271Z    | DDMAM78PQNM      |
| M24308/24-271F    | DDMAM78PQNM-A101 |
| M24308/24-271P    | DDMAM78PQNM-F225 |
| M24308/24-273Z    | DEMAM15PANM      |
| M24308/24-273F    | DEMAM15PANM-A101 |
| M24308/24-274Z    | DAMAM25PANM      |
| M24308/24-274F    | DAMAM25PANM-A101 |
| M24308/24-275Z    | DBMAM44PANM      |
| M24308/24-275F    | DBMAM44PANM-A101 |
| M24308/24-276Z    | DCMAM62PANM      |
| M24308/24-276F    | DCMAM62PANM-A101 |
| M24308/24-277Z    | DDMAM78PANM      |
| M24308/24-277F    | DDMAM78PANM-A101 |
| M24308/26-1       | D20418-128       |
| M24308/26-1F      | D20418-2         |
| M24308/26-2       | D20418-129       |
| M24308/26-2F      | D20418-39        |

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Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

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| S-311-P Specification | ITT Part Number   | S-311-P Specification | ITT Part Number    | S-311-P Specification | ITT Part Number    |
|-----------------------|-------------------|-----------------------|--------------------|-----------------------|--------------------|
| 311P10-1P-B-12        | DEM-9P-NMB-K52    | 311P10-14P-B-12       | DBM-21W1P-NMB-K52  | 311P407-2S-B-12       | DAMA-26S-NMB-K47FO |
| 311P10-1P-C-12        | DEM-9P-NMC-K52    | 311P10-14P-C-12       | DBM-21W1P-NMC-K52  | 311P407-3P-B-12       | DBMA-44P-NMB-K47FO |
| 311p10-1S-B-12        | DEM-9S-NMB-K52    | 311P10-14S-B-12       | DBM-21W1S-NMB-K52  | 311P407-3S-B-12       | DBMA-44S-NMB-K47FO |
| 311P10-1S-C-12        | DEM-9S-NMC-K52    | 311P10-14S-C-12       | DBM-21W1S-NMC-K52  | 311P407-4P-B-12       | DCMA-62P-NMB-K47FO |
| 311P10-2P-C-12        | DAM-15P-NMC-K52   | 311P10-15P-B-12       | DCM-8W8P-NMB-K52   | 311P407-4S-B-12       | DCMA-62S-NMB-K47FO |
| 311P10-2S-B-12        | DAM-15S-NMB-K52   | 311P10-15P-C-12       | DCM-8W8P-NMC-K52   | 311P407-5P-B-12       | DDMA-78P-NMB-K47FO |
| 311P10-2S-C-12        | DAM-15S-NMC-K52   | 311P10-15S-B-12       | DCM-8W8S-NMB-K52   | 311P407-5S-B-12       | DDMA-78S-NMB-K47FO |
| 311P10-3P-B-12        | DBM-25P-NMB-K52   | 311P10-15S-C-12       | DCM-8W8S-NMC-K52   | 311P409-1P-B-12       | DEMA-9P-NMB-K47FO  |
| 311P10-3P-C-12        | DBM-25P-NMC-K52   | 311P10-16P-B-12       | DCM-13W6P-NMB-K52  | 311P409-1S-B-12       | DEMA-9S-NMB-K47FO  |
| 311P10-3S-B-12        | DBM-25S-NMB-K52   | 311P10-16P-C-12       | DCM-13W6P-NMC-K52  | 311P409-2P-B-12       | DAMA-15P-NMB-K47FO |
| 311P10-3S-C-12        | DBM-26S-NMC-K52   | 311P10-16S-B-12       | DCM-13W6S-NMB-K52  | 311P409-2S-B-12       | DAMA-15S-NMB-K47FO |
| 311P10-4P-B-12        | DCM-37P-NMB-K52   | 311P10-16S-C-12       | DCM-13W6S-NMC-K52  | 311P409-3P-B-12       | DBMA-25P-NMB-K47FO |
| 311P10-4P-C-12        | DCM-37P-NMC-K52   | 311P10-17P-B-12       | DCM-17W5P-NMB-K52  | 311P409-3S-B-12       | DBMA-25S-NMB-K47FO |
| 311P10-4S-B-12        | DCM-37S-NMB-K52   | 311P10-17P-C-12       | DCM-17W5P-NMC-K52  | 311P409-4P-B-12       | DCMA-37-NMB-K47FO  |
| 311P10-4S-C-12        | DCM-37S-NMC-K52   | 311P10-17S-C-12       | DCM-17W5S-NMC-K52  | 311P409-4S-B-12       | DCMA-37S-NMB-K47FO |
| 311P10-5P-B-12        | DDM-50P-NMB-K52   | 311P10-18P-B-12       | DCM-21WA4P-NMB-K52 | 311P409-5P-B-12       | DDMA-50P-NMB-K47FO |
| 311P10-5P-C-12        | DDM-50P-NMC-K52   | 311P10-18P-C-12       | DCM-21WA4P-NMC-K52 | 311P409-5S-B-12       | DDMA-50S-NMB-K47FO |
| 311P10-5S-B-12        | DDM-50S-NMB-K52   | 311P10-18S-B-12       | DCM-21WA4S-NMB-K52 | G08P1                 | 030-2042-002       |
| 311P10-5S-C-12        | DDM-50S-NMC-K52   | 311P10-18S-C-12       | DCM-21WA4S-NMC-K52 | G08S1                 | 031-1147-002       |
| 311P10-6P-B-12        | DEM-5W1P-NMB-K52  | 311P10-23P-B-12       | DDM-36W4P-NMB-K52  | G10P1                 | 330-5291-037       |
| 311P10-6P-C-12        | DEM-5W1P-NMC-K52  | 311P10-23P-C-12       | DDM-36W4S-NMC-K52  | G10S1                 | 031-1007-052       |
| 311P10-6S-B-12        | DEM-5W1S-NMB-K52  | 311P10-23S-B-12       | DDM-36W4S-NMB-K52  | GCP1                  | DM53740-17         |
| 311P10-6S-C-12        | DEM-5W1S-NMC-K52  | 311P10-23S-C-12       | DDM-36W4S-NMC-K52  | GCP2                  | DM53740-15         |
| 311P10-7P-B-12        | DAM-3W3P-NMB-K52  | 311P10-24P-B-12       | DDM-43W2P-NMB-K52  | GCP3                  | DM53740-16         |
| 311P10-7P-C-12        | DAM-3W3P-NMC-K52  | 311P10-24P-C-12       | DDM-43W2S-NMC-K52  | GCP4                  | DM53740-18         |
| 311P10-7S-B-12        | DAM-3W3S-NMB-K52  | 311P10-24S-B-12       | DDM-43W2S-NMB-K52  | GCRP1                 | DM53741-12         |
| 311P10-7S-C-12        | DAM-3W3S-NMC-K52  | 311P10-24S-C-12       | DDM-43W2S-NMC-K52  | GCRP2                 | DM53741-11         |
| 311P10-8P-B-12        | DAM-7W2P-NMB-K52  | 311P10-25P-B-12       | DDM-47W1P-NMB-K52  | GCRP3                 | DM53741-10         |
| 311P10-8P-C-12        | DAM-7W2P-NMC-K52  | 311P10-25P-C-12       | DDM-47W1P-NMC-K52  | GCRP4                 | DM53741-13         |
| 311P10-8S-B-12        | DAM-7W2S-NMB-K52  | 311P10-25S-B-12       | DDM-47W1S-NMB-K52  | GCS1                  | DM53742-18         |
| 311P10-8S-C-12        | DAM-7W2S-NMC-K52  | 311P10-25S-C-12       | DDM-47W1S-NMC-K52  | GCS2                  | DM53742-16         |
| 311P10-9P-B-12        | DAM-11W1P-NMB-K52 | 311P10-25P-B-12       | DDM-47W1P-NMB-K52  | GCS3                  | DM53742-17         |
| 311P10-9P-C-12        | DAM-11W1P-NMC-K52 | 311P10-25P-C-12       | DDM-47W1P-NMC-K52  | GCS4                  | DM53742-19         |
| 311P10-9S-B-12        | DAM-11W1S-NMB-K52 | 311P10-25S-B-12       | DDM-47W1S-NMB-K52  | GCSR1                 | DM43743-18         |
| 311P10-9S-C-12        | DAM-11W1S-NMC-K52 | 311P10-25S-C-12       | DDM-47W1S-NMC-K52  | GCSR2                 | DM43743-16         |
| 311P10-10P-B-12       | DBM-5W5P-NMB-K52  | 311P405-9P-B-12       | DAA-11W1P-NMB-K52  | GCSR3                 | DM43743-17         |
| 311P10-10P-C-12       | DBM-5W5P-NMC-K52  | 311P405-9S-B-12       | DAA-11W1S-NMB-K52  | GCSR4                 | DM43743-19         |
| 311P10-10S-B-12       | DBM-5W5S-NMB-K52  | 311P405-10P-B-12      | DAM-5W5P-NMB-K52   | GHP6                  | DM51157-8          |
| 311P10-10S-C-12       | DBM-5W5S-NMC-K52  | 311P405-10S-B-12      | DAM-5W5S-NMB-K52   | GHRP6                 | DM51157-5005       |
| 311P10-11P-B-12       | DBM-9W4P-NMB-K52  | 311P405-11P-B-12      | DAM-9W4P-NMB-K52   | GHR6                  | DM51155-5004       |
| 311P10-11P-C-12       | DBM-9W4P-NMC-K52  | 311P405-12P-B-12      | DBA-13W3P-NMB-K52  | GHS6                  | DM51155-7          |
| 311P10-11S-B-12       | DBM-9W4S-NMB-K52  | 311P405-12S-B-12      | DBA-13W3S-NMB-K52  |                       |                    |
| 311P10-11S-C-12       | DBM-9W4S-NMC-K52  | 311P405-13P-B-12      | DBMA-17W2P-NMB-K52 |                       |                    |
| 311P10-12P-B-12       | DBM-13W3P-NMB-K52 | 311P405-13S-B-12      | DBMA-17W2S-NMB-K52 |                       |                    |
| 311P10-12P-C-12       | DBM-13W3P-NMC-K52 | 311P405-14P-B-12      | DCA-21W1P-NMB-K52  |                       |                    |
| 311P10-12S-B-12       | DBM-13W3S-NMB-K52 | 311P405-15P-B-12      | DCM-8W8P-NMB-K52   |                       |                    |
| 311P10-12S-C-12       | DBM-13W3S-NMC-K52 | 311P405-15S-B-12      | DCM-8W8S-NMB-K52   |                       |                    |
| 311P10-13P-B-12       | DBM-17W2P-NMB-K52 | 311P405-18P-B-12      | DCA-21W1P-NMB-K52  |                       |                    |
| 311P10-13P-C-12       | DBM-17W3P-NMC-K52 | 311P405-18S-B-12      | DCA-21WA1S-NMB-K52 |                       |                    |
| 311P10-13S-B-12       | DBM-17W2S-NMB-K52 | 311P405-24S-B-12      | DDA-43W2S-NMB-K52  |                       |                    |
| 311P10-13S-C-12       | DBM-13W3S-NMC-K52 | 311P407-1P-B-12       | DEMA-15P-NMB-K47FO |                       |                    |
|                       |                   | 311P407-1S-B-12       | DEMA-15S-NMB-K47FO |                       |                    |
|                       |                   | 311P407-2P-B-12       | DAMA-26P-NMB-K47FO |                       |                    |

Dimensions shown in inches (mm)  
 Specifications and dimensions subject to change



D Sub

