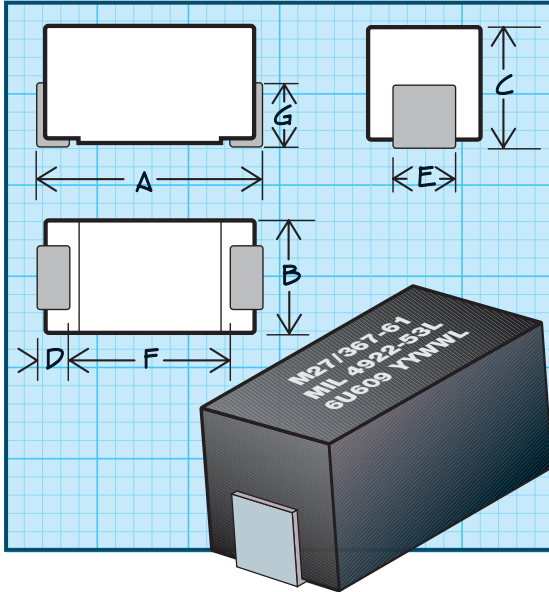


Series MIL4922



High Current, MIL-PRF-27/367 Qualified Surface Mount Power Inductors



Mechanical Configuration Units are encapsulated in a Surface Mount package, using an epoxy molded case. Leads are pre-tinned. A high resistivity ferrite core allows for high inductance with low DC resistance.

Physical Parameters

| | Inches | Millimeters |
|---|-------------------|------------------|
| A | 0.490 to 0.520 | 12.44 to 13.21 |
| B | 0.230 to 0.250 | 5.84 to 6.35 |
| C | 0.210 to 0.230 | 5.33 to 5.84 |
| D | 0.050 Min. | 1.27 Min. |
| E | 0.055 to .075 | 1.40 to 1.91 |
| F | 0.330 (Ref. only) | 8.38 (Ref. only) |
| G | 0.120 (Ref. only) | 3.04 (Ref. only) |

Operating Temperature Range -55°C to +130°C

Current Rating at 85°C Ambient 45°C Rise

Maximum Power Dissipation at 85°C 0.55 Watts

Inductance

Measured at 1 VAC open circuit with no DC current.

Incremental Current The current at which the inductance will decrease by a maximum of 5% from its inductance at zero DC current.

Weight (Grams Max.) 1.5

Packaging Tape & reel (24mm): 13"-reel, 800 pieces max.; 7" reel not available

Lead Finish Sn63Pb37
(Tin-Lead) Hot Solder Dipped

Made in the U.S.A.

| DASH NUMBER* | | MIL DASH | INDUCTANCE @ 1 KHz (μH) ± 15% | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (Amps) | INCREMENTAL CURRENT (Amps) |
|------------------------------------|-----|----------|----------------------------------|---------------------------------|----------------------------------|-------------------------------|
| SERIES MIL4922 FERRITE CORE | | | | | | |
| -221L | -01 | | 0.22 | 0.0080 | 7.00 | 7.00 |
| -271L | -02 | | 0.27 | 0.0085 | 6.75 | 6.75 |
| -331L | -03 | | 0.33 | 0.0090 | 6.50 | 6.50 |
| -391L | -04 | | 0.39 | 0.0095 | 6.25 | 6.25 |
| -471L | -05 | | 0.47 | 0.0100 | 6.00 | 6.00 |
| -561L | -06 | | 0.56 | 0.0105 | 5.80 | 5.80 |
| -681L | -07 | | 0.68 | 0.0110 | 5.70 | 5.70 |
| -821L | -08 | | 0.82 | 0.0120 | 5.60 | 5.60 |
| -01L | -09 | | 1.00 | 0.013 | 5.50 | 5.50 |
| -02L | -10 | | 1.20 | 0.018 | 4.69 | 4.69 |
| -03L | -11 | | 1.50 | 0.020 | 4.45 | 4.45 |
| -04L | -12 | | 1.80 | 0.021 | 4.34 | 4.34 |
| -05L | -13 | | 2.20 | 0.029 | 3.70 | 3.70 |
| -06L | -14 | | 2.70 | 0.034 | 3.41 | 3.41 |
| -07L | -15 | | 3.30 | 0.038 | 3.23 | 3.23 |
| -08L | -16 | | 3.90 | 0.042 | 3.07 | 3.07 |
| -09L | -17 | | 4.70 | 0.047 | 2.90 | 2.90 |
| -10L | -18 | | 5.60 | 0.051 | 2.79 | 2.79 |
| -11L | -19 | | 6.80 | 0.058 | 2.61 | 2.61 |
| -12L | -20 | | 8.20 | 0.063 | 2.51 | 2.51 |
| -13L | -21 | | 10.0 | 0.071 | 2.36 | 2.36 |
| -14L | -22 | | 12.0 | 0.079 | 2.24 | 2.24 |
| -15L | -23 | | 15.0 | 0.089 | 2.11 | 2.11 |
| -16L | -24 | | 18.0 | 0.119 | 1.82 | 1.82 |
| -17L | -25 | | 22.0 | 0.152 | 1.61 | 1.61 |
| -18L | -26 | | 27.0 | 0.179 | 1.48 | 1.48 |
| -19L | -27 | | 33.0 | 0.222 | 1.33 | 1.33 |
| -20L | -28 | | 39.0 | 0.315 | 1.12 | 1.12 |
| -21L | -29 | | 47.0 | 0.362 | 1.04 | 1.04 |
| -22L | -30 | | 56.0 | 0.397 | 1.00 | 1.00 |
| -23L | -31 | | 68.0 | 0.418 | 0.97 | 0.97 |
| -24L | -32 | | 82.0 | 0.604 | 0.81 | 0.81 |
| -25L | -33 | | 100 | 0.672 | 0.76 | 0.76 |
| -26L | -34 | | 120 | 0.735 | 0.73 | 0.73 |
| -27L | -35 | | 150 | 0.998 | 0.63 | 0.63 |
| -28L | -36 | | 180 | 1.370 | 0.53 | 0.53 |
| -29L | -37 | | 220 | 1.580 | 0.50 | 0.50 |
| -30L | -38 | | 270 | 1.770 | 0.47 | 0.47 |
| -31L | -39 | | 330 | 2.510 | 0.39 | 0.39 |
| -32L | -40 | | 390 | 2.730 | 0.38 | 0.38 |
| -33L | -41 | | 470 | 3.250 | 0.35 | 0.35 |
| -34L | -42 | | 560 | 3.750 | 0.33 | 0.33 |
| -35L | -43 | | 680 | 4.310 | 0.30 | 0.30 |
| -36L | -44 | | 820 | 6.040 | 0.26 | 0.26 |
| -37L | -45 | | 1000 | 6.900 | 0.24 | 0.24 |
| -38L | -46 | | 1200 | 10.00 | 0.200 | 0.200 |
| -39L | -47 | | 1500 | 12.50 | 0.178 | 0.178 |
| -40L | -48 | | 1800 | 16.00 | 0.157 | 0.157 |
| -41L | -49 | | 2200 | 20.00 | 0.141 | 0.141 |
| -42L | -50 | | 2700 | 23.00 | 0.131 | 0.131 |
| -43L | -51 | | 3300 | 25.00 | 0.126 | 0.126 |
| -44L | -52 | | 3900 | 33.00 | 0.110 | 0.110 |
| -45L | -53 | | 4700 | 37.00 | 0.103 | 0.103 |
| -46L | -54 | | 5600 | 40.00 | 0.100 | 0.100 |
| -47L | -55 | | 6800 | 62.00 | 0.080 | 0.080 |
| -48L | -56 | | 8200 | 66.00 | 0.077 | 0.077 |
| -49L | -57 | | 10000 | 74.00 | 0.071 | 0.071 |
| -50L | -58 | | 12000 | 93.00 | 0.065 | 0.065 |
| -51L | -59 | | 15000 | 105.0 | 0.061 | 0.061 |
| -52L | -60 | | 18000 | 143.0 | 0.052 | 0.052 |
| -53L | -61 | | 22000 | 160.0 | 0.050 | 0.050 |

*Complete part # must include MIL4922 PLUS the dash #

POWER INDUCTORS