

**Extremely small dimensions
Versions with special dimensions
can be supplied at short notice**

Construction

- Dielectric: polyethylene terephthalate (polyester)
- Stacked-film technology
- Uncoated

Features

- Special dimensions available upon request
- High pulse strength
- Minimum tensile strength of leads >10 N

Typical applications

- Standard applications
- Electronic lamp ballast circuits
- Energy-saving lamps
- Substitute for electrolytics in electronic lamp ballasts (420 Vdc)

Terminals

- Parallel wire leads, tinned
- Also available with $(3,0 \pm 0,5)$ mm lead length upon request

Marking

Rated capacitance (coded),
rated dc voltage

Delivery mode

Bulk (untaped)
Taped (AMMO pack or reel) for
lead spacing $\leq 15,0$ mm.
For notes on taping, [refer to page 279](#).

Detail specification

Homologated in accordance with CECC 30 401-007

Notes on mounting

When mounting these capacitors, take into account creepage distances and clearances to adjacent live parts. The insulating strength of the cut surfaces to other live parts of the circuit is 1,5 times the capacitors rated dc voltage, but is always at least 300 Vdc.

Capacitors with 7,5 mm lead spacing are only suitable for use with single-clad printed circuit boards.



Dimensions in mm

| Lead spacing $e \pm 0,4$ | Diameter d_1 | Type |
|-----------------------------|----------------|----------|
| 7,5 | 0,5 | B 32 560 |
| 10,0 | 0,5 | B 32 561 |
| 15,0 | 0,6 | B 32 562 |
| 22,5 | 0,8 | B 32 563 |
| 27,5 | 0,8 | B 32 564 |



Overview of available types

| Lead spacing | 7,5 mm | 10 mm | 15 mm | 22,5 mm | 27,5 mm |
|----------------------|----------|----------|----------|----------|----------|
| Type | B 32 560 | B 32 561 | B 32 562 | B 32 563 | B 32 564 |
| Page | 55 | 57 | 58 | 59 | 60 |
| 1,0 nF | | | | | |
| 1,5 nF | | | | | |
| 2,2 nF | | | | | |
| 3,3 nF | | | | | |
| 4,7 nF | | | | | |
| 6,8 nF | | | | | |
| 10 nF | | | | | |
| 15 nF | | | | | |
| 22 nF | | | | | |
| 33 nF | | | | | |
| 47 nF | | | | | |
| 68 nF | | | | | |
| 0,10 µF | | | | | |
| 0,15 µF | | | | | |
| 0,22 µF | | | | | |
| 0,33 µF | | | | | |
| 0,47 µF | | | | | |
| 0,68 µF | | | | | |
| 1,0 µF | | | | | |
| 1,5 µF | | | | | |
| 2,2 µF | | | | | |
| 3,3 µF | | | | | |
| 4,7 µF | | | | | |
| 5,6 µF ¹⁾ | | | | | |
| 6,8 µF | | | | | |
| 10 µF | | | | | |
| 15 µF | | | | | |
| 22 µF | | | | | |
| 33 µF | | | | | |

1) For B 32 564, 420 Vdc only



Ordering codes and packing units, lead spacing 7,5 mm

| V_R (V_{rms} , $f \leq 60$ Hz) | C_R | Maximum dimensions $b \times h \times l$ (mm) | Ordering code ¹⁾ | Packing units (pcs) | | |
|---|---------------------------------|---|-----------------------------|---------------------|------|---------|
| | | | | Ammo pack | Reel | Untaped |
| 63 Vdc (40 Vac) | 0,22 μ F | 2,5 \times 5,2 \times 9,0 | B32560-J224-+ | 2) | 2) | 2500 |
| | 0,33 μ F | 2,5 \times 5,6 \times 9,0 | B32560-J334-+ | 2) | 2) | 2500 |
| | 0,47 μ F | 2,6 \times 5,8 \times 9,0 | B32560-J474-+**** | 3250 | 2600 | 2000 |
| | 0,68 μ F | 3,2 \times 6,2 \times 9,0 | B32560-J684-+**** | 2850 | 2300 | 1500 |
| | 1,0 μ F | 4,0 \times 6,8 \times 9,0 | B32560-J105-+**** | 2200 | 1800 | 1000 |
| | 1,5 μ F | 5,1 \times 7,6 \times 9,0 | B32560-J155-+**** | 1700 | 1400 | 500 |
| | 2,2 μ F | 6,5 \times 8,2 \times 9,0 | B32560-J225-+**** | 1300 | 1100 | 500 |
| | 3,3 μ F | 8,5 \times 9,1 \times 9,0 | B32560-J335-+ | – | – | 350 |
| | 4,7 μ F | 9,8 \times 11,0 \times 9,0 | B32560-J475-+ | – | – | 250 |
| 6,8 μ F | 11,5 \times 13,3 \times 9,0 | B32560-J685-+ | – | – | 150 | |
| 100 Vdc (63 Vac) | 0,10 μ F | 2,5 \times 4,7 \times 9,0 | B32560-J1104-+ | 2) | 2) | 3000 |
| | 0,15 μ F | 2,5 \times 4,7 \times 9,0 | B32560-J1154-+ | 2) | 2) | 3000 |
| | 0,22 μ F | 2,5 \times 5,1 \times 9,0 | B32560-J1224-+**** | 3400 | 2700 | 2000 |
| | 0,33 μ F | 2,7 \times 5,7 \times 9,0 | B32560-J1334-+**** | 3100 | 2500 | 1500 |
| | 0,47 μ F | 3,4 \times 6,1 \times 9,0 | B32560-J1474-+**** | 2500 | 2000 | 1200 |
| | 0,68 μ F | 4,2 \times 6,5 \times 9,0 | B32560-J1684-+**** | 2000 | 1600 | 1000 |
| | 1,0 μ F | 5,5 \times 7,0 \times 9,0 | B32560-J1105-+**** | 1600 | 1300 | 500 |
| | 1,5 μ F | 6,7 \times 8,2 \times 9,0 | B32560-J1155-+ | – | – | 400 |
| 2,2 μ F | 8,5 \times 9,2 \times 9,0 | B32560-J1225-+ | – | – | 300 | |
| 250 Vdc (160 Vac) | 33 nF | 2,5 \times 4,8 \times 9,0 | B32560-J3333-+ | 2) | 2) | 3000 |
| | 47 nF | 2,5 \times 5,2 \times 9,0 | B32560-J3473-+**** | 3500 | 2800 | 2300 |
| | 68 nF | 2,6 \times 5,7 \times 9,0 | B32560-J3683-+**** | 3400 | 2700 | 1700 |
| | 0,10 μ F | 3,2 \times 6,1 \times 9,0 | B32560-J3104-+**** | 2650 | 2200 | 1200 |
| | 0,15 μ F | 3,9 \times 7,0 \times 9,0 | B32560-J3154-+**** | 2150 | 1800 | 1000 |
| | 0,22 μ F | 4,9 \times 7,5 \times 9,0 | B32560-J3224-+**** | 1750 | 1400 | 650 |
| | 0,33 μ F | 6,4 \times 8,2 \times 9,0 | B32560-J3334-+ | – | – | 500 |

Capacitance tolerance: $\pm 20\% \hat{=} M, \pm 10\% \hat{=} K, \pm 5\% \hat{=} J$

Special dimensions available upon request. For corresponding design rules, [refer to page 238](#).

- 1) Replace the + by the code letter for the required capacitance tolerance.
 Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
 The ordering code for untaped components ends after the tolerance code letter.
- 2) Taping upon request



B 32 560

Ordering codes and packing units, lead spacing 7,5 mm

| V_R (V_{rms} , $f \leq 60$ Hz) | C_R | Maximum dimensions $b \times h \times l$ (mm) | Ordering code ¹⁾ | Packing units (pcs) | | |
|---|----------------------|---|-----------------------------|---------------------|------|---------|
| | | | | Ammo pack | Reel | Untaped |
| 400 Vdc (200 Vac) | 1,0 nF | 2,5 × 5,5 × 9,0 | B32560-J6102-+ | 2) | 2) | 2300 |
| | 1,5 nF | 2,5 × 5,5 × 9,0 | B32560-J6152-+*** | 3500 | 2900 | 2000 |
| | 2,2 nF | 2,5 × 5,5 × 9,0 | B32560-J6222-+*** | 3700 | 3000 | 2100 |
| | 3,3 nF | 2,5 × 5,5 × 9,0 | B32560-J6332-+*** | 3400 | 2800 | 2000 |
| | 4,7 nF | 2,5 × 5,5 × 9,0 | B32560-J6472-+*** | 3700 | 3000 | 2000 |
| | 6,8 nF | 2,5 × 5,5 × 9,0 | B32560-J6682-+*** | 3700 | 3000 | 2000 |
| | 10 nF | 2,5 × 5,5 × 9,0 | B32560-J6103-+*** | 3500 | 2800 | 2200 |
| | 15 nF | 2,5 × 5,5 × 9,0 | B32560-J6153-+*** | 3500 | 2800 | 2500 |
| | 22 nF | 2,5 × 5,5 × 9,0 | B32560-J6223-+*** | 3400 | 2700 | 2300 |
| | 33 nF | 2,6 × 6,0 × 9,0 | B32560-J6333-+*** | 3400 | 2700 | 1600 |
| | 47 nF | 3,2 × 6,5 × 9,0 | B32560-J6473-+*** | 2650 | 2200 | 1200 |
| | 68 nF | 3,8 × 7,3 × 9,0 | B32560-J6683-+*** | 2250 | 1900 | 1000 |
| | 0,10 μF | 4,9 × 7,7 × 9,0 | B32560-J6104-+*** | 1750 | 1400 | 500 |
| | 0,15 μF | 6,5 × 8,2 × 9,0 | B32560-J6154-+ | – | – | 500 |
| | 630 Vdc (400 Vac) | 1,0 nF | 2,5 × 5,5 × 9,0 | B32560-J8102-+ | 2) | 2) |
| 1,5 nF | | 2,5 × 5,5 × 9,0 | B32560-J8152-+*** | 3500 | 2900 | 2000 |
| 2,2 nF | | 2,5 × 5,5 × 9,0 | B32560-J8222-+*** | 3700 | 3000 | 2100 |
| 3,3 nF | | 2,5 × 5,5 × 9,0 | B32560-J8332-+*** | 3400 | 2800 | 2000 |
| 4,7 nF | | 2,5 × 5,5 × 9,0 | B32560-J8472-+*** | 3400 | 2700 | 1800 |
| 6,8 nF | | 3,2 × 6,5 × 9,0 | B32560-J8682-+*** | 2900 | 2400 | 1300 |
| 10 nF | | 3,8 × 7,5 × 9,0 | B32560-J8103-+*** | 2400 | 2000 | 1000 |

Capacitance tolerance: $\pm 20\% \hat{=} M, \pm 10\% \hat{=} K, \pm 5\% \hat{=} J$

Special dimensions available upon request. For corresponding design rules, [refer to page 238](#).

- 1) Replace the + by the code letter for the required capacitance tolerance.
 Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
 The ordering code for untaped components ends after the tolerance code letter.
- 2) Taping upon request

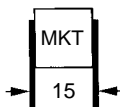

Ordering codes and packing units, lead spacing 10 mm

| V_R (V_{rms} , $f \leq 60$ Hz) | C_R | Maximum dimensions $b \times h \times l$ (mm) | Ordering code ¹⁾ | Packing units (pcs) | | |
|---|--------------|---|-----------------------------|---------------------|------|---------|
| | | | | Ammo pack | Reel | Untaped |
| 100 Vdc (63 Vac) | 0,33 μ F | $2,5 \times 5,2 \times 11,5$ | B32561-J1334-**** | 1750 | 2400 | 1600 |
| | 0,47 μ F | $2,9 \times 5,8 \times 11,5$ | B32561-J1474-**** | 1560 | 2300 | 1200 |
| | 0,68 μ F | $3,6 \times 6,3 \times 11,5$ | B32561-J1684-**** | 1260 | 2000 | 1000 |
| | 1,0 μ F | $4,5 \times 6,9 \times 11,5$ | B32561-J1105-**** | 1050 | 1500 | 500 |
| | 1,5 μ F | $5,6 \times 7,8 \times 11,5$ | B32561-J1155-**** | 810 | 1200 | 500 |
| | 2,2 μ F | $6,9 \times 9,0 \times 11,5$ | B32561-J1225-+ | – | – | 400 |
| 250 Vdc (160 Vac) | 47 nF | $2,5 \times 4,4 \times 11,5$ | B32561-J3473-+ | 2) | 2) | 2300 |
| | 68 nF | $2,5 \times 4,8 \times 11,5$ | B32561-J3683-**** | 1760 | 2400 | 1800 |
| | 0,10 μ F | $2,8 \times 5,3 \times 11,5$ | B32561-J3104-**** | 1600 | 2300 | 1300 |
| | 0,15 μ F | $3,3 \times 6,0 \times 11,5$ | B32561-J3154-**** | 1300 | 2000 | 1000 |
| | 0,22 μ F | $4,2 \times 6,6 \times 11,5$ | B32561-J3224-**** | 1040 | 1600 | 700 |
| | 0,33 μ F | $5,2 \times 7,5 \times 11,5$ | B32561-J3334-**** | 850 | 1300 | 500 |
| | 0,47 μ F | $6,3 \times 8,5 \times 11,5$ | B32561-J3474-**** | 700 | 1000 | 400 |
| 400 Vdc (200 Vac) | 10 nF | $2,5 \times 5,1 \times 11,5$ | B32561-J6103-**** | 1760 | 2400 | 1700 |
| | 15 nF | $2,5 \times 5,1 \times 11,5$ | B32561-J6153-**** | 1830 | 2500 | 2000 |
| | 22 nF | $2,5 \times 5,1 \times 11,5$ | B32561-J6223-**** | 1830 | 2500 | 2000 |
| | 33 nF | $2,5 \times 5,1 \times 11,5$ | B32561-J6333-**** | 1760 | 2400 | 1700 |
| | 47 nF | $2,6 \times 6,0 \times 11,5$ | B32561-J6473-**** | 1760 | 2400 | 1300 |
| | 68 nF | $3,2 \times 6,6 \times 11,5$ | B32561-J6683-**** | 1390 | 2100 | 1000 |
| | 0,10 μ F | $4,0 \times 6,9 \times 11,5$ | B32561-J6104-**** | 1090 | 1700 | 700 |
| | 0,15 μ F | $5,2 \times 7,7 \times 11,5$ | B32561-J6154-**** | 850 | 1300 | 500 |
| | 0,22 μ F | $6,6 \times 8,5 \times 11,5$ | B32561-J6224-+ | – | – | 300 |

Capacitance tolerance: $\pm 20\% \hat{=} M, \pm 10\% \hat{=} K, \pm 5\% \hat{=} J$

Special dimensions available upon request. For corresponding design rules, [refer to page 238](#).

- 1) Replace the + by the code letter for the required capacitance tolerance.
 Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
 The ordering code for untaped components ends after the tolerance code letter.
- 2) Taping upon request



B 32 562

Ordering codes and packing units, lead spacing 15 mm

| V_R (V_{rms} , $f \leq 60$ Hz) | C_R | Maximum dimensions $b \times h \times l$ (mm) | Ordering code ¹⁾ | Packing units (pcs) | | |
|---|----------------------------------|---|-----------------------------|---------------------|------|---------|
| | | | | Ammo pack | Reel | Untaped |
| 100 Vdc (63 Vac) | 1,0 μ F | 3,2 \times 6,3 \times 16,5 | B32562-J1105-**** | 1750 | 2000 | 1500 |
| | 1,5 μ F | 4,0 \times 7,3 \times 16,5 | B32562-J1155-**** | 1460 | 1500 | 1000 |
| | 2,2 μ F | 4,9 \times 8,0 \times 16,5 | B32562-J1225-**** | 1190 | 1300 | 800 |
| | 3,3 μ F | 6,0 \times 9,3 \times 16,5 | B32562-J1335-**** | 960 | 1000 | 500 |
| | 4,7 μ F | 7,3 \times 10,6 \times 16,5 | B32562-J1475-**** | 790 | 900 | 400 |
| | 6,8 μ F | 9,0 \times 11,8 \times 16,5 | B32562-J1685-**** | 640 | 700 | 290 |
| | 10 μ F | 11,8 \times 13,0 \times 16,5 | B32562-J1106-+ | – | – | 200 |
| 250 Vdc (160 Vac) | 0,22 μ F | 3,2 \times 5,6 \times 16,5 | B32562-J3224-**** | 1750 | 2000 | 1700 |
| | 0,33 μ F | 4,0 \times 6,2 \times 16,5 | B32562-J3334-**** | 1460 | 1500 | 1200 |
| | 0,47 μ F | 5,0 \times 6,7 \times 16,5 | B32562-J3474-**** | 1190 | 1300 | 950 |
| | 0,68 μ F | 6,0 \times 7,8 \times 16,5 | B32562-J3684-**** | 960 | 1000 | 500 |
| | 1,0 μ F | 7,0 \times 9,3 \times 16,5 | B32562-J3105-**** | 830 | 900 | 500 |
| | 1,5 μ F | 8,7 \times 11,0 \times 16,5 | B32562-J3155-**** | 660 | 700 | 300 |
| | 2,2 μ F | 10,7 \times 12,8 \times 16,5 | B32562-J3225-+ | – | – | 200 |
| 3,3 μ F | 13,9 \times 14,5 \times 16,5 | B32562-J3335-+ | – | – | 150 | |
| 400 Vdc (200 Vac) | 22 nF | 3,3 \times 5,6 \times 16,5 | B32562-J6223-**** | 1750 | 2000 | 1800 |
| | 33 nF | 3,3 \times 5,6 \times 16,5 | B32562-J6333-**** | 1750 | 2000 | 1800 |
| | 47 nF | 3,3 \times 5,6 \times 16,5 | B32562-J6473-**** | 1870 | 2100 | 1800 |
| | 68 nF | 3,3 \times 5,6 \times 16,5 | B32562-J6683-**** | 1800 | 2000 | 1800 |
| | 0,10 μ F | 3,3 \times 5,6 \times 16,5 | B32562-J6104-**** | 1700 | 1900 | 1600 |
| | 0,15 μ F | 3,9 \times 6,5 \times 16,5 | B32562-J6154-**** | 1420 | 1600 | 1200 |
| | 0,22 μ F | 4,7 \times 7,5 \times 16,5 | B32562-J6224-**** | 1240 | 1300 | 850 |
| | 0,33 μ F | 6,0 \times 8,3 \times 16,5 | B32562-J6334-**** | 960 | 1000 | 500 |
| | 0,47 μ F | 7,3 \times 9,3 \times 16,5 | B32562-J6474-**** | 790 | 900 | 450 |
| | 0,68 μ F | 8,9 \times 10,8 \times 16,5 | B32562-J6684-**** | 640 | 700 | 300 |
| | 1,0 μ F | 10,9 \times 12,5 \times 16,5 | B32562-J6105-+ | – | – | 200 |
| 630 Vdc (350 Vac) | 0,10 μ F | 6,2 \times 9,3 \times 16,5 | B32562-J8104-+ | – | – | 700 |
| | 0,15 μ F | 7,6 \times 10,8 \times 16,5 | B32562-J8154-+ | – | – | 500 |
| | 0,22 μ F | 9,2 \times 12,2 \times 16,5 | B32562-J8224-+ | – | – | 350 |
| | 0,33 μ F | 11,2 \times 14,2 \times 16,5 | B32562-J8334-+ | – | – | 250 |
| | 0,47 μ F | 13,5 \times 16,3 \times 16,5 | B32562-J8474-+ | – | – | 180 |

Capacitance tolerance: $\pm 20\% \hat{=} M, \pm 10\% \hat{=} K, \pm 5\% \hat{=} J$

Special dimensions available upon request. For corresponding design rules, [refer to page 238](#).

1) Replace the + by the code letter for the required capacitance tolerance.
 Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
 The ordering code for untaped components ends after the tolerance code letter.


Ordering codes and packing units, lead spacing 22,5 mm

| V_R (V_{rms} , $f \leq 60$ Hz) | C_R | Maximum dimensions $b \times h \times l$ (mm) | Ordering code ¹⁾ | Packing units (pcs) Untaped |
|---|--------------|---|-----------------------------|--------------------------------|
| 100 Vdc (63Vac) | 1,5 μ F | 5,0 \times 8,0 \times 24,0 | B32563-J1155-+ | 1400 |
| | 2,2 μ F | 5,0 \times 8,2 \times 24,0 | B32563-J1225-+ | 1900 |
| | 3,3 μ F | 5,0 \times 8,2 \times 24,0 | B32563-J1335-+ | 1900 |
| | 4,7 μ F | 5,9 \times 9,0 \times 24,0 | B32563-J1475-+ | 1600 |
| | 6,8 μ F | 7,0 \times 10,5 \times 24,0 | B32563-J1685-+ | 920 |
| | 10 μ F | 8,6 \times 12,2 \times 24,0 | B32563-J1106-+ | 960 |
| | 15 μ F | 10,9 \times 14,0 \times 24,0 | B32563-J1156-+ | 620 |
| | 22 μ F | 12,8 \times 17,2 \times 24,0 | B32563-J1226-+ | 360 |
| 250 Vdc (160 Vac) | 0,68 μ F | 4,8 \times 7,2 \times 24,0 | B32563-J3684-+ | 1760 |
| | 1,0 μ F | 5,6 \times 8,2 \times 24,0 | B32563-J3105-+ | 1140 |
| | 1,5 μ F | 6,9 \times 9,5 \times 24,0 | B32563-J3155-+ | 920 |
| | 2,2 μ F | 8,3 \times 11,2 \times 24,0 | B32563-J3225-+ | 740 |
| | 3,3 μ F | 10,1 \times 13,5 \times 24,0 | B32563-J3335-+ | 700 |
| | 4,7 μ F | 12,2 \times 15,5 \times 24,0 | B32563-J3475-+ | 390 |
| 400 Vdc (200Vac) | 0,22 μ F | 5,1 \times 8,0 \times 24,0 | B32563-J6224-+ | 1800 |
| | 0,33 μ F | 5,1 \times 8,0 \times 24,0 | B32563-J6334-+ | 1700 |
| | 0,47 μ F | 5,7 \times 8,3 \times 24,0 | B32563-J6474-+ | 1660 |
| | 0,68 μ F | 6,9 \times 9,6 \times 24,0 | B32563-J6684-+ | 920 |
| | 1,0 μ F | 8,3 \times 11,2 \times 24,0 | B32563-J6105-+ | 850 |
| | 1,5 μ F | 10,3 \times 13,2 \times 24,0 | B32563-J6155-+ | 660 |
| | 2,2 μ F | 12,6 \times 15,5 \times 24,0 | B32563-J6225-+ | 360 |

Capacitance tolerance: $\pm 20\% \hat{=}$ M, $\pm 10\% \hat{=}$ K, $\pm 5\% \hat{=}$ J

Special dimensions available upon request. For corresponding design rules, [refer to page 238](#).

1) Replace the + by the code letter for the required capacitance tolerance.



B 32 564

Ordering codes and packing units, lead spacing 27,5 mm

| V_R (V_{rms} , $f \leq 60$ Hz) | C_R | Maximum dimensions $b \times h \times l$ (mm) | Ordering code ¹⁾ | Packing units (pcs) Untaped |
|---|-------------|---|-----------------------------|--------------------------------|
| 100 Vdc (63Vac) | 4,7 μ F | 5,6 \times 8,3 \times 29,0 | B32564-J1475-+ | 1000 |
| | 6,8 μ F | 6,3 \times 9,5 \times 29,0 | B32564-J1685-+ | 820 |
| | 10 μ F | 7,6 \times 11,0 \times 29,0 | B32564-J1106-+ | 680 |
| | 15 μ F | 9,1 \times 13,5 \times 29,0 | B32564-J1156-+ | 430 |
| | 22 μ F | 11,0 \times 16,0 \times 29,0 | B32564-J1226-+ | 320 |
| | 33 μ F | 13,0 \times 19,8 \times 29,0 | B32564-J1336-+ | 360 |
| 250 Vdc (160 Vac) | 1,0 μ F | 5,1 \times 7,6 \times 29,0 | B32564-J3105-+ | 1620 |
| | 1,5 μ F | 5,3 \times 10,2 \times 29,0 | B32564-J3155-+ | 970 |
| | 2,2 μ F | 6,4 \times 11,8 \times 29,0 | B32564-J3225-+ | 920 |
| | 3,3 μ F | 7,9 \times 14,0 \times 29,0 | B32564-J3335-+ | 750 |
| | 4,7 μ F | 9,6 \times 15,8 \times 29,0 | B32564-J3475-+ | 400 |
| | 6,8 μ F | 11,9 \times 18,0 \times 29,0 | B32564-J3685-+ | 300 |
| 400 Vdc (200 Vac) | 1,0 μ F | 13,8 \times 22,5 \times 29,0 | B32564-J3106-+ | 280 |
| | 1,5 μ F | 6,8 \times 11,2 \times 29,0 | B32564-J6105-+ | 750 |
| | 2,2 μ F | 7,8 \times 14,2 \times 29,0 | B32564-J6155-+ | 750 |
| | 3,3 μ F | 9,6 \times 16,4 \times 29,0 | B32564-J6225-+ | 400 |
| | 4,7 μ F | 12,2 \times 18,8 \times 29,0 | B32564-J6335-+ | 330 |
| | 6,8 μ F | 14,2 \times 22,8 \times 29,0 | B32564-J6475-+ | 260 |
| 420 Vdc (200 Vac) | 4,7 μ F | 16,0 \times 20,0 \times 29,0 | B32564-T6475-K | 290 |
| | 5,6 μ F | 16,0 \times 20,0 \times 29,0 | B32564-T6565-K | 290 |
| | 6,8 μ F | 16,0 \times 20,0 \times 29,0 | B32564-T6685-K | 290 |

Capacitance tolerance: $\pm 20\% \hat{=} M, \pm 10\% \hat{=} K, \pm 5\% \hat{=} J$

Special dimensions available upon request. For corresponding design rules, [refer to page 238](#).

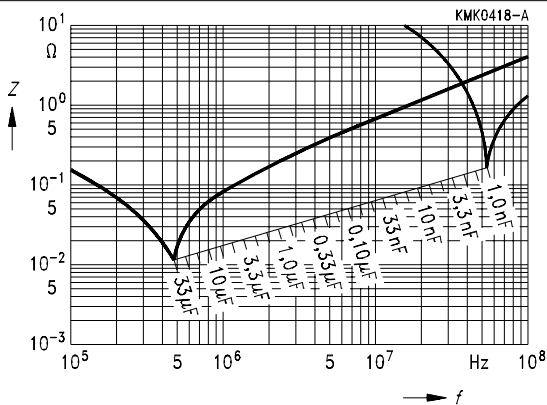
1) Replace the + by the code letter for the required capacitance tolerance.

Technical data

| | | | | |
|--|--|--|--|-----------------------|
| Climatic category in accordance with IEC 68-1 | 55/100/56 ¹⁾ | | | |
| Lower category temperature T_{\min} | - 55 °C | | | |
| Upper category temperature T_{\max} | + 100 °C (+ 125 °C for 1000 h and $V_C = 0,5 \cdot V_R$) | | | |
| Damp heat test | 56 days/40 °C/93 % relative humidity | | | |
| Limit values after damp heat test ¹⁾ | Capacitance change $ \Delta C/C $ | $\leq 5 \%$ | | |
| | Dissipation factor change $\Delta \tan \delta$ | $\leq 3 \cdot 10^{-3}$ (at 1 kHz) | | |
| | | $\leq 5 \cdot 10^{-3}$ (at 10 kHz) | | |
| | Insulation resistance R_{is} | $\geq 50 \%$ of minimum | | |
| | or time constant $\tau = C_R \cdot R_{is}$ | as-delivered values | | |
| Reliability: | | | | |
| Reference conditions | 0,5 · V_R ; 40 °C | | | |
| Failure rate | 2 · 10 ⁻⁹ /h = 2 fit | | | |
| | For a conversion table for other operating conditions and temperatures, refer to page 276. | | | |
| Service life | 200 000 h | | | |
| Failure criteria: | | | | |
| Total failure | Short circuit or open circuit | | | |
| Failure due to variation of parameters | Capacitance change $ \Delta C/C $ | > 10 % | | |
| | Dissipation factor $\tan \delta$ | > 2 · upper limit value | | |
| | Insulation resistance R_{is} | < 150 MΩ ($C_R \leq 0,33 \mu\text{F}$) | | |
| | or time constant $\tau = C_R \cdot R_{is}$ | < 50 s ($C_R > 0,33 \mu\text{F}$) | | |
| DC test voltage | 1,4 · V_R , 2 s | | | |
| Category voltage V_C | $T \leq 85 \text{ °C}$: $V_C = 1,0 \cdot V_R$ or $1,0 \cdot V_{\text{rms}}$ | | | |
| Operation with dc voltage or ac voltage V_{rms} up to 60 Hz | $T \leq 100 \text{ °C}$: $V_C = 0,8 \cdot V_R$ or $0,8 \cdot V_{\text{rms}}$ | | | |
| Category voltage for short operating periods | $T \leq 100 \text{ °C}$: $V_C = 1,25 \cdot V_R$ or $1,0 \cdot V_{\text{rms}}$ for max. 2000 h | | | |
| | $T \leq 125 \text{ °C}$: $V_C = 0,5 \cdot V_R$ or $0,5 \cdot V_{\text{rms}}$ for max. 1000 h | | | |
| Dissipation factor $\tan \delta$ (in 10 ⁻³) at 20 °C (upper limit values) | | $C_R \leq 0,1 \mu\text{F}$ | $0,1 \mu\text{F} < C_R \leq 1 \mu\text{F}$ | $C_R > 1 \mu\text{F}$ |
| | at 1 kHz | 8 | 8 | 10 |
| | 10 kHz | 15 | 15 | – |
| | 100 kHz | 30 | – | – |
| Insulation resistance R_{is} or time constant $\tau = C_R \cdot R_{is}$ at 20 °C, rel. humidity $\leq 65 \%$ (minimum as-delivered values) | V_R | $C_R \leq 0,33 \mu\text{F}$ | $C_R > 0,33 \mu\text{F}$ | |
| | $\leq 100 \text{ Vdc}$ | 3750 MΩ | 1250 s | |
| | $\geq 250 \text{ Vdc}$ | 7500 MΩ | 2500 s | |

1) According to CECC 30401-007, test criteria must be met after exposure to damp heat for 21 days.

Impedance Z
versus
frequency f
(typical values)



Pulse handling capability

Maximum permissible voltage change per unit of time for non-sinusoidal voltages (pulse, sawtooth).

| V_R | Max. rate of voltage rise V_{pp}/τ in $V/\mu s$ (for $V_{pp} = V_R$) | | | | |
|---------|--|-------|-------|---------|---------|
| | Lead spacing | | | | |
| | 7,5 mm | 10 mm | 15 mm | 22,5 mm | 27,5 mm |
| 63 Vdc | 120 | — | — | — | — |
| 100 Vdc | 150 | 75 | 50 | 50 | 25 |
| 250 Vdc | 200 | 150 | 100 | 100 | 50 |
| 400 Vdc | 275 | 175 | 125 | 125 | 60 |
| 420 Vdc | — | — | — | — | 60 |
| 630 Vdc | 320 | — | 150 | — | — |

For $V_{pp} < V_R$, the permissible voltage rise rate value V_{pp}/τ may be multiplied by the factor V_R/V_{pp} . Also refer to the calculation example on [page 250](#).

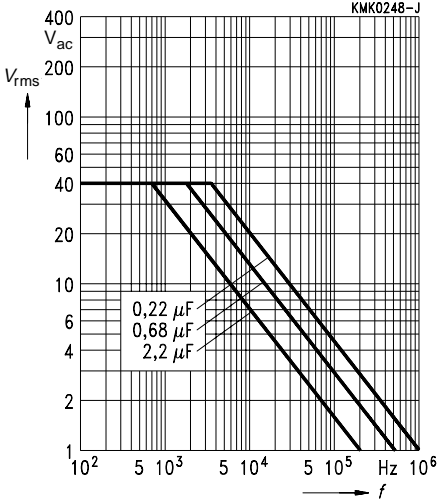
| V_R | Pulse characteristic k_0 in $V^2/\mu s$ (for $V_{pp} \leq V_R$) | | | | |
|---------|--|---------|---------|---------|---------|
| | Lead spacing | | | | |
| | 7,5 mm | 10 mm | 15 mm | 22,5 mm | 27,5 mm |
| 63 Vdc | 15 000 | — | — | — | — |
| 100 Vdc | 30 000 | 15 000 | 10 000 | 10 000 | 5 000 |
| 250 Vdc | 100 000 | 75 000 | 50 000 | 50 000 | 25 000 |
| 400 Vdc | 220 000 | 140 000 | 100 000 | 100 000 | 50 000 |
| 420 Vdc | — | — | — | — | 50 000 |
| 630 Vdc | 400 000 | — | 190 000 | — | — |



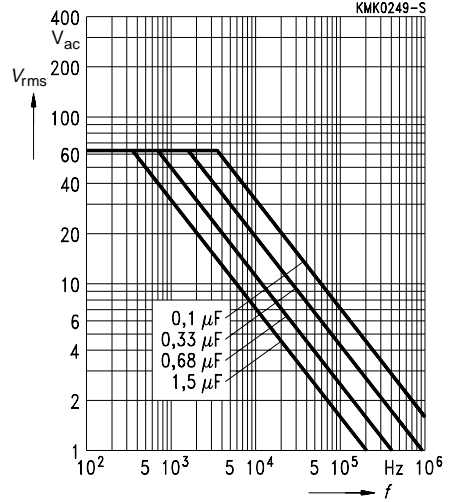
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 7,5 mm

63 Vdc/ 40 Vac



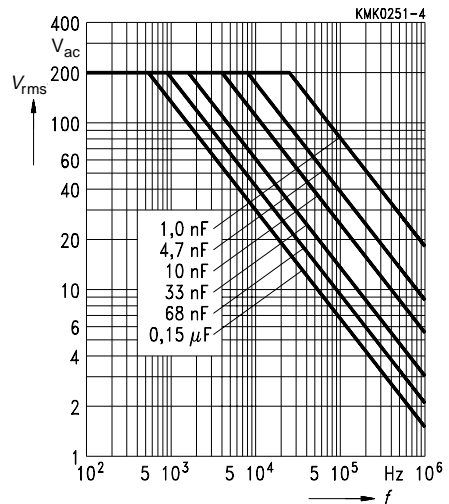
100 Vdc/ 63 Vac



250Vdc/ 160Vac



400 Vdc/ 200 Vac



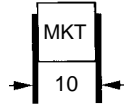


B 32 560

**Permissible ac voltage V_{rms} versus frequency f
Lead spacing 7,5 mm**

630 Vdc/ 400 Vac





Permissible ac voltage V_{rms} versus frequency f

Lead spacing 10 mm

100 Vdc/ 63 Vac



250 Vdc/ 160 Vac



400 Vdc/ 200 Vac





B 32 562

Permissible ac voltage V_{rms} versus frequency f

Lead spacing 15 mm

100 Vdc/63 Vac



250 Vdc/ 160 Vac



400 Vdc/200 Vac



630 Vdc/350 Vac





Permissible ac voltage V_{rms} versus frequency f

Lead spacing 22,5 mm

100 Vdc/ 63 Vac



250 Vdc/ 160 Vac



400 Vdc/ 200 Vac





B 32 564

Permissible ac voltage V_{rms} versus frequency f

Lead spacing 27,5 mm

100 Vdc/ 63 Vac



250 Vdc/ 160 Vac



400 Vdc/ 200 Vac

