

**EMI Suppression Capacitors
X2 / 275 Vac**

B81133

**X2 capacitors with small dimensions
Rated voltage 275 Vac, 50/60 Hz**

Construction

- Dielectric: polyester (MKT)
- Internal series connection
- Plastic case (UL 94 V-0)
- Epoxy resin sealing, flame-retardant

Features

- The capacitors meet the requirements of IEC 384-14, 2nd edition
- Self-healing properties

Terminals

- Parallel wire leads, tinned
- Two standard lead lengths available:
6 mm und 26 mm
Other lead lengths available upon request




Marking

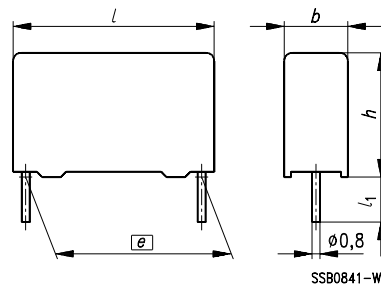
Manufacturer, lot number, date of manufacture (year/week), rated capacitance (coded), capacitance tolerance (code letter), rated ac voltage, type number, interference suppression sub-class (X2), style (MKT), climatic category, awarded marks of conformity

Delivery mode

Bulk (untaped)
Taped (Ammo pack or reel)
For notes on taping [see page 439](#).

Approvals

| Marks of conformity | Standards |
|---|--|
|  | UL 1283 (250 Vac) UL 1414 (250 Vac) |
|  | CSA C22.2 No. 0; 8 (250 Vac) CSA C22.2 No. 0; 1 (250 Vac) |
|  | EN 132400 / IEC 384-14, 2nd edition |



| | | |
|-------------------------|------|--------|
| Lead length l_1 mm | 6 -1 | 26 ± 2 |
|-------------------------|------|--------|

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Technical data

| | | |
|--|--|--------------------------------------|
| Permissible continuous dc voltage | 275 V (50/60 Hz) | |
| Permissible continuous ac voltage | 630 V | |
| DC test voltage | 1700 V, 2 s (layer/layer) | |
| Insulation resistance R_{is} or time constant $\tau = C_R \cdot R_{is}$ at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values) | $C_R \leq 0,33 \mu\text{F}$ 30 000 M Ω | $C_R > 0,33 \mu\text{F}$ 10 000 s |
| Capacitance tolerance | $\pm 20\% \hat{=} M$ (closer tolerances upon request) | |
| Climatic category | In accordance with IEC 68-1 40/100/21 (–40 °C/+100 °C/21 days damp heat test) | |

Ordering codes and packing units

| Lead spacing [e] $\pm 0,4$ mm | C_R | Maximum dimensions $b \times h \times l$ (mm) | Ordering code ¹⁾ | Packing units (pcs) | | | |
|--|--------------------|---|-----------------------------|---------------------|------|--|-------------------|
| | | | | Ammo pack | Reel | Untaped Lead length 6 mm 26 mm | |
| 15 | 22 nF | 5,0 × 10,5 × 18,0 | B81133-C1223-M*** | 1180 | 1300 | 1000 | 1000 |
| | 33 nF | 5,0 × 10,5 × 18,0 | B81133-C1333-M*** | 1180 | 1300 | 1000 | 1000 |
| | 47 nF | 6,0 × 11,0 × 18,0 | B81133-C1473-M*** | 1000 | 1100 | 1000 | 1000 |
| | 68 nF | 7,0 × 12,5 × 18,0 | B81133-C1683-M*** | 840 | 900 | 1000 | 1000 |
| | 0,10 μF | 8,5 × 14,5 × 18,0 | B81133-D1104-M*** | 690 | 700 | 500 | 500 |
| | 0,15 μF | 8,5 × 14,5 × 18,0 | B81133-D1154-M*** | 690 | 700 | 500 | 500 |
| 22,5 | 0,10 μF | 6,0 × 15,0 × 26,5 | B81133-C1104-M*** | 690 | 700 | 720 | 500 |
| | 0,15 μF | 7,0 × 16,0 × 26,5 | B81133-C1154-M*** | 590 | 600 | 630 | 500 |
| | 0,22 μF | 8,5 × 16,5 × 26,5 | B81133-C1224-M*** | 500 | 500 | 510 | 500 |
| | 0,33 μF | 10,5 × 16,5 × 26,5 | B81133-D1334-M*** | 400 | 400 | 540 | 500 |
| | 0,47 μF | 11,0 × 20,5 × 26,5 | B81133-D1474-M*** | 380 | 350 | 510 | 400 |
| 27,5 | 0,33 μF | 11,0 × 21,0 × 31,5 | B81133-C1334-M*** | – | 350 | 320 | 250 |
| | 0,47 μF | 11,0 × 21,0 × 31,5 | B81133-C1474-M*** | – | 350 | 320 | 250 |
| | 0,68 μF | 12,5 × 21,5 × 31,5 | B81133-C1684-M*** | – | 300 | 280 | 250 |
| | 1,0 μF | 14,0 × 24,5 × 31,5 | B81133-C1105-M*** | – | – | 260 | 250 |
| | 1,5 μF | 18,0 × 27,5 × 31,5 | B81133-C1155-M*** | – | – | 200 | 200 ²⁾ |
| 32,5 | 2,2 μF | 20,0 × 31,0 × 36,5 | B81133-C1225-M*** | – | – | 125 | 125 ²⁾ |

) Replace the *** by the code number for the required lead length or packing.

000 = lead length 6 mm (untaped)
026 = lead length 26 mm (untaped)
289 = taped, Ammo pack
189 = taped, reel

2) Approval to EN 132 400 / IEC 384-14, 2nd edition