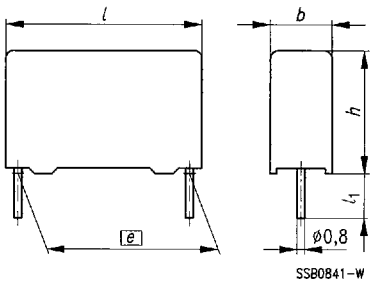
X2 capacitors with small dimensions
Rated ac voltage 275 V, 50/60 Hz



Lead length l_1 mm	6 – 1	26 ±2

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's logo, 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

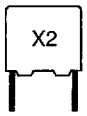
Delivery mode

Bulk (untaped)
Taped (Ammo and reel)
For notes on taping refer to page 278.

Marks of conformity

Marks of conformity	Standards	Marks of conformity	Standards
	VDE 0565 part 1 / 12.79[1)]		IEC 384-14 / 1981[1)]
	SEV 1055 / 1978[1)]		IEC 384-14 / 1981[1)]
	Stærkstrømreglementets Afsnit 21[1)]		CEI 40-7 / VI-1980[1)]
			UL 1283[1)]
	NEMKO 132 / 85[1)]		UL 1414 (application made for V_R = 125 V_{ac})
	SEN 432901[1)]		CSA C22.2 No. 0; 8[1)]
			EN 132400 / IEC 384-14, 2nd edition (application made for V_R = 275 V_{ac})

1) Approved for V_R = 250 V_{ac}



B 81 133
275 V_{ac}

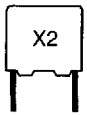
Ordering codes and packing units

Lead spacing ⌀ ±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
32,5	2,2 µF	20,0 × 31,0 × 36,5	B81133-C1225-M***	–	–	125	125

Capacitance tolerance: ± 20 % ≙ M (closer tolerances upon request)

1) 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 (taping refer to page 278)
189 = taped, reel (taping refer to page 278)

B 81 133
275 V_{ac}



Technical data

Climatic category in accordance with IEC 68-1	40/100/21
Lower category temperature T_{min}	– 40 °C
Upper category temperature T_{max}	+ 100 °C
Damp heat test	21 days/40 °C/93 % relative humidity
Limit values after damp heat test	Capacitance change $\lvert\Delta C/C\rvert$ ≤ 5 % Dissipation factor change Δ tan δ ≤ 5 10^{-3} (at 1 kHz) Insulation resistance R_{is} ≥ 50 % of minimum or time constant $\tau = C_R \cdot R_{is}$ as-delivered values
Permissible continuous ac voltage	275 V (50/60 Hz)
Permissible continuous dc voltage	630 V
DC test voltage	1700 V, 2 s

Dissipation factor tan δ (in 10^{-3}) at 20 °C (upper limit values)

	$C_R \leq 0{,}1$ µF	0,1 µF < $C_R \leq 1$ µF	$C_R > 1$ µF
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 ≤ 65 % (minimum as-delivered values)

$C_R \leq 0{,}33$ µF	$C_R > 0{,}33$ µF
30 000 MΩ	10 000 s