MMK

RoHS Compliant

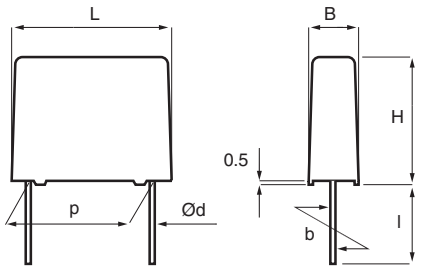
- **Metallized polyester**
- **According to IEC 60384-2, DIN 44122**

TYPICAL APPLICATIONS

Bypassing, signal coupling. General purpose for highest reliability.

CONSTRUCTION

Metallized polyester film capacitor. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



p	d	std l	max l	b
5.0 ± 0.4	0.5	4^{+1}	20	± 0.4
7.5 ± 0.4	0.6	4^{+1}	20	± 0.4
10.0 ± 0.4	0.6	4^{+1}	30	± 0.4
15.0 ± 0.4	0.8	4^{+1}	30	± 0.4
22.5 ± 0.4	0.8	4^{+1}	30	± 0.4
27.5 ± 0.4	0.8	4^{+1}	30	± 0.4
37.5 ± 0.5	1.0	4^{+1}	30	± 0.7

TECHNICAL DATA

Rated voltage U_R, VDC	50	63	100	250	400	630	1000
Rated voltage U_R, VAC	30	40	63	160	200	220	250
Capacitance, µF	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	–10.0	–82	–82	–39	–18	–6.8	–4.7

Capacitance tolerance
±20%, ±10% standard, ±5%.

Category temperature range
–55 ... +100°C

Voltage derating
Above +85°C DC and AC voltage derating is 1.25%/°C.

Rated temperature
+85°C

Climatic category
IEC 60068-1, 55/100/56
DIN 40040, FME
–55 ... +100°C (+125°C)
Average relative humidity ≤ 75%
RH = 95% for 30 days per year.
RH = 85% for further days limited by average value per year, occasional slight condensation permitted.

Test voltage
1.6 x U_R VDC for 2s

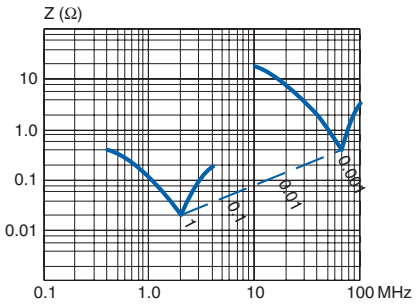
Capacitance drift
Max. 2% after a 2 year storage period at a temperature of +10 ... +40°C and a relative humidity of 40...60%.

Reliability
Operational life > 200 000 h.
Failure rate < 3 FIT, T = +40°C, U = 0.5 x U_R.
Failure criteria according to DIN 44122.

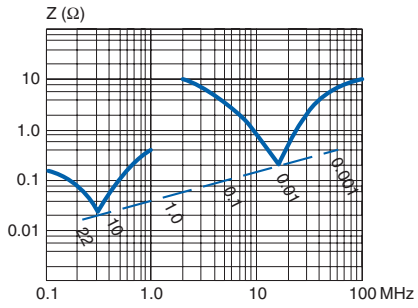
Maximum pulse steepness:
dU/dt according to article table. For peak to peak voltages lower than rated voltage (U_{PP} < U_R), the specified dU/dt can be multiplied by the factor U_R/U_{PP}.

Temperature coefficient
+400 (±200) ppm/°C at 1 kHz

Self inductance
Approximately 6 nH/cm for the total length of capacitor winding and the leads.



Resonance frequencies MMK 5



Resonance frequencies MMK7.5 ... 37.5

ENVIRONMENTAL TEST DATA

Damp heat test	**Test conditions:**	T = +40°C, RH = 93%, t = 56 days.
	Test criteria:	Δ C/C ≤ ±5%, Δ tan∂ ≤ 0.005 (1kHz), IR after test 0.5 x IR min.
Endurance test	**Test conditions:**	T = +100°C, U = 1.25 x (0.8 x U_R),
	Test criteria:	t = 2000 h. Δ C/C ≤ ±5%, Δ tan∂ ≤ 0.005 (1kHz) Δ tan∂ ≤ 0.010 (100kHz) IR after test 0.5 x IR min.

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