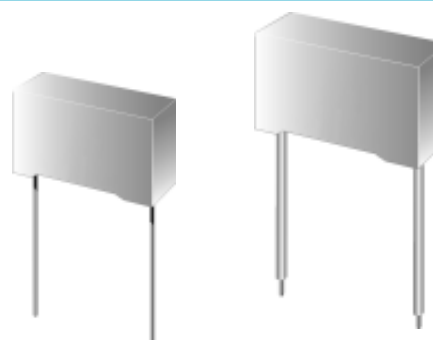


Metallized polyester film capacitor MKT - X2 class +100°C capacitor

Main applications: Interference suppression, filtering, across the line application



Dielectric	Polyester	
Electrodes	Vacuum deposited metal layers	
Coating	Solvent resistant plastic case with resin sealing. Flame retardant execution (UL 94 V-0)	
Construction	Extended metallized film (refer to general technical information)	
Leads	Tinned copper wire, +105°C insulated tinned copper or stranded insulated tinned copper wire leads. Insulated leads available for box size $\geq 10 \times 18,5 \times 26,5$ mm	
Leads code	S for 5 ± 1 mm length tinned copper leads, L for 30 ± 5 mm length tinned copper leads, C for tinned copper insulated wire, M for stranded insulated tinned copper leads	
Reference standard	IEC60384-14(2 nd edition 93), EN132400	
Approvals	VDE, IMQ in accordance with EN 132400 (X2), IEC60384-14(2 nd edition 93)	
Climatic category	40/100/21 (IEC 60068/1), GMF (DIN40040)	
Operating temperature range	-40...+100°C	
Rated capacitance (Cr)	0,01 μ F to 2,2 μ F. Refer to article table	
Capacitance tolerance (at 1kHz)	$\pm 10\%$ (code=K) and $\pm 20\%$ (code=M)	
Capacitance temperature coefficient	Refer to graphs in general technical information	
Long term stability (at 1kHz)	Capacitance variation $\leq \pm 2\%$ after a period of 2 years at standard environmental conditions	
Rated voltage (Ur)	275V 50÷60Hz	
Category voltage (Uc)	Uc=Ur at +100°C	
Self inductance	≤ 1 nH/mm of capacitor pitch and leads length used for connection	
Maximum pulse rise time	100 V/ μ s at 390Vdc	
Dissipation factor (DF), max.	Tg δ $\times 10^{-4}$, measured at 25 ± 5 °C: ≤ 80 at 1kHz	
Insulation resistance (IR)	Measured between terminals, at 25 \pm °C, after 1 minute of electrification at 100Vdc: IR ≥ 30000 M Ω for Cr $\leq 0,33$ μ F IR ≥ 10000 s for Cr $> 0,33$ μ F	
Test voltage between terminals (Ut)	2000Vdc applied for 10s at 25 ± 5 °C	
Test voltage between terminals and case (Utc)	2,5kV 50÷60Hz applied for 60s at 25 ± 5 °C	
Damp heat test (steady state)	<p>Test conditions: Temperature= +40± 2°C Relative humidity= 93$\pm 2\%$ Test Duration= 21 days</p>	<p>Performance: Dielectric strength: no dielectric breakdown or flash over at 4,3xUr(DC), 1 min. Capacitance change $\leq \pm 5\%$ DF change $\leq 0,0050$ at 1kHz IR $\geq 50\%$ of initial limit value</p>
Surge test	<p>Test conditions: 3 pulses, 1,2/50μs. Voltage applied: 2,5kV peak for Cr ≤ 1 μF $2,5kV / \sqrt{C_r}$ for Cr > 1 μF</p>	

Endurance test

Test conditions:

Temperature= $+100\pm 2^{\circ}\text{C}$
 Test Duration= 1000 h
 Voltage applied: $1,25xU_r + 1000\text{VAC}$ for
 0,1s/h

Performance:

Dielectric strength: no dielectric breakdown
 or flash over at $4,3xU_r(\text{DC})$, 1 min.
 Capacitance change $\leq \pm 10\%$
 DF change $\leq 0,0050$ at 1kHz
 IR $\geq 50\%$ of initial limit value

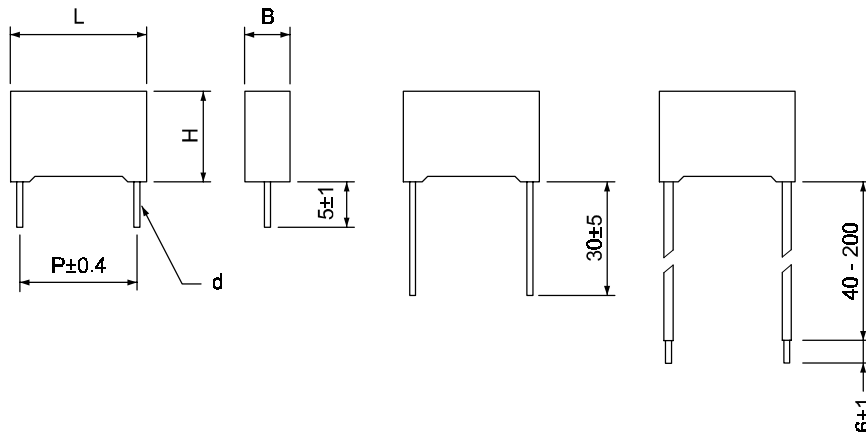
Resistance to soldering heat test

Test conditions:

Solder bath temperature= $+260\pm 5^{\circ}\text{C}$
 Dipping time (with heat screen)= $10\pm 1\text{s}$

Performance:

Capacitance change $\leq \pm 2\%$
 DF change $\leq 0,0050$ at 1kHz
 IR $\geq 50\%$ initial limit value



Note: standard cables (C and M codes) length up to 80mm; longer leads available upon request

XMB article table

Ur Vac	Cap. (μF)	Dimension in mm						du/dt V/ μs	Ko V ² / μs	ICEL ordering code ⁽¹⁾
		B	H	L	P	d				
275	0,01	5	11	18	15	0,8	100	78000	XMBA272100*E#	
275	0,015	5	11	18	15	0,8	100	78000	XMBA272150*E#	
275	0,022	5	11	18	15	0,8	100	78000	XMBA272220*E#	
275	0,033	6	12	18	15	0,8	100	78000	XMBA272330*E#	
275	0,047	6	12	18	15	0,8	100	78000	XMBA272470*E#	
275	0,068	7,5	13,5	18	15	0,8	100	78000	XMBA272680*E#	
275	0,1	8,5	14,5	18	15	0,8	100	78000	XMBA273100*E#	
275	0,1	6	15	26,5	22,5	0,8	100	78000	XMBA273100*G#	
275	0,15	8,5	17	26,5	22,5	0,8	100	78000	XMBA273150*G#	
275	0,22	10	18,5	26,5	22,5	0,8	100	78000	XMBA273220*G#	
275	0,33	11	20	26,5	22,5	0,8	100	78000	XMBA273330*G#	
275	0,33	11	20	32	27,5	0,8	100	78000	XMBA273330*H#	
275	0,47	11	20	32	27,5	0,8	100	78000	XMBA273470*H#	
275	0,68	15	24,5	32	27,5	0,8	100	78000	XMBA273680*H#	
275	1	18	33	32	27,5	0,8	100	78000	XMBA274100*H#	
275	1,5	22	37	32	27,5	0,8	100	78000	XMBA274150*H#	
275	1,5	17	28	42,5	37,5	0,8	100	78000	XMBA274150*J#	
275	2,2	22	30	42,5	37,5	1	100	78000	XMBA274220*J#	

⁽¹⁾Change the * symbol with the needed capacitance tolerance code: K= $\pm 10\%$, M= $\pm 20\%$
 and the # symbol with the needed leads execution (S, L, M or C)

Warning

This specification must be completed with the data given in the
 "General technical information" chapter