

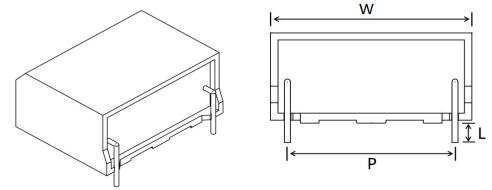
Surface Mount Metallized Polyester Film Interference Suppression Capacitors-Class X2

■ Structure

- Dielectric: Metallized Polyester Film
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulate: Plastic case (UL94 V-0), Flame retardant epoxy resin sealing.

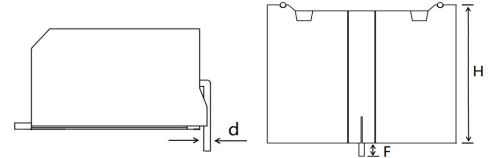
■ Typical Application

- Across the line, Surge suppression, EMI filtering in AC occasion; Power switch etc. E.g.: Lamps, Power sources, etc.



■ Characteristics

- Suitable for reflow soldering



■ Conform to RoHS standards

■ Technical Parameter

Reference Standards	GB/T 15448 (IEC 60384-19) GB/T6346.14-2015(IEC 60384-14)	
Climatic Category	40/110/56B	
Operating Temperature Range	-40°C~110°C	
Rated Voltage	275/280/300/320VAC (50/60Hz)	
Capacitance Range	0.1μF ~ 1.0μF	
Capacitance Tolerance	J (±5%)、K (±10%)、M (±20%)	
Voltage Proof	Between Terminals	4.3U _R (Vdc), 1min
	Between Terminals To Case	2140Vac, 1min
Dissipation Factor	≤0.0100 (1kHz)	20°C, 1V
Insulation Resistance	C _R ≤0.33μF, R ≥7500MΩ	20°C, 100V, 1min
	C _R >0.33μF, R _C ≥2500S	
Welding Conditions	Reflow welding: High temperature peak 255°C, within 60s above 220°C (component surface temperature)	
Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.		

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■ Part Number System

The 15 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

M P 2 4 7 4 K 3 2 E 9 E 8 9 M

Digit 1 to 3	Series Code: MP2 = X2
Digit 4 to 6	Rated Capacitance Value: 474=47x10 ⁴ pF=0.47μF
Digit 7	Capacitance Tolerance: J=±5%、K=±10%、M= ±20%
Digit 8 to 9	A.C. Rated Voltage: 27=275Vac; 28=280Vac; 30=300Vac; 32=320Vac
Digit 10 to 11	Dimensions Code: See The Dimension Comparison Table
Digit 12	Color Code: R -Creamy-white; T - Black
Digit 13	Lead-wire Diameter Code: 8=0.8
Digit 14 to 15	Internal Recognition Code

■ Dimensions (mm) (Rated Voltage: 275/280/300/320Vac)

μ F	Part number	W±0.5	T±0.5	H±0.5	P±0.5	d±0.05	L±0.5
0.1	MP2104K**DSE89M	19	11	16.5	15	0.8	1.7
0.12	MP2124K**DSE89M	19	11	16.5	15	0.8	1.7
0.15	MP2154K**D9E89M	19	13.5	20	15	0.8	1.7
0.18	MP2184K**D9E89M	19	13.5	20	15	0.8	1.7
0.22	MP2224K**D9E89M	19	13.5	20	15	0.8	1.7
0.27	MP2274K**DZE89M	19	15.5	21	15	0.8	1.7
0.33	MP2334K**DZE89M	19	15.5	21	15	0.8	1.7
0.33	MP2334K**E9E89M	27	13	21	22.5	0.8	1.7
0.39	MP2394K**E9E89M	27	13	21	22.5	0.8	1.7
0.47	MP2474K**E9E89M	27	13	21	22.5	0.8	1.7
0.56	MP2564K***#E89M	27	15	23	22.5	0.8	1.7
0.68	MP2684K***#E89M	27	15	23	22.5	0.8	1.7
0.82	MP2824K***#E89M	27	17	26	22.5	0.8	1.7
1.0	MP2105K***#E89M	27	17	26	22.5	0.8	1.7

Note: “**” indicates the Rated Voltage, replace it with the corresponding Rated Voltage code.

“***” indicates the Dimensions Code.