

金屬化聚丙烯脂膜電容器

METALIZED POLYPROPYLENE FILM CAPACITOR (INTERFERENCE SUPPRESSORS CLASS-X2)

INTRODUCTION:

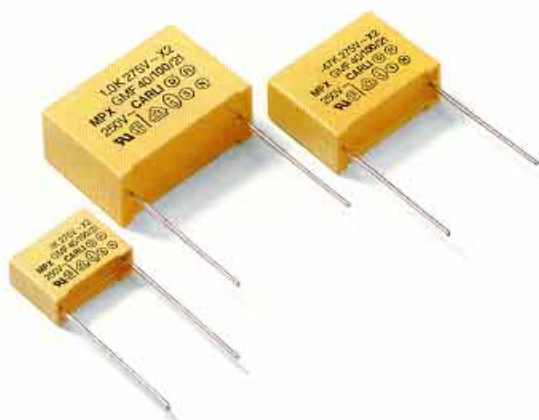
MPX CAPACITORS are constructed with metalized polypropylene film dielectric, copper-ply lead, encapsulated in plastic case with epoxy resin sealed. They provide Interference Suppression with safety approvals of EN 132400, IEC 384-14-14 - II, (UL, CSA=250 VAC) file No.E120045 and VDE 0565-1 class X2 (275 VAC) file No. 15031-4670-1002.

APPLICATIONS:

THE TYPE-MPX CAPACITORS ARE IDEAL FOR USING Line-By-Pass, Antenna coupling, Accross-The-line and (Spark killer circuits and available for EMI filter and switching power supply application.

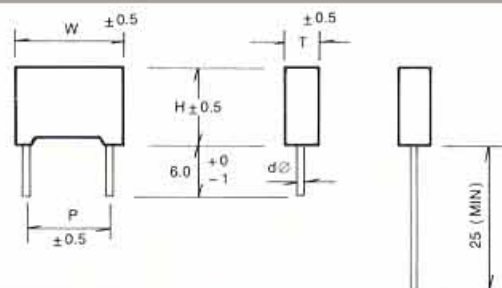
FEATURES:

- Non-induction construction.
- Self-healing property.
- Flame-retardant plastic case and epoxy resin. (compliance with UL 94V-0)
- High moisture-resistance.
- Good solderability



SPECIFICATIONS:

1. OPERATING TEMPERATURE RANG: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$.
2. CAPACITANCE RANGE: $.01 \sim 1\mu\text{F}$
3. CAPACITANCE TOLERANCE: $J = \pm 5\%$, $K = \pm 10\%K$, $M = \pm 20\%M$
4. RATED VOLTAGE: 250VAC/275VAC, 50Hz-60Hz
5. DISSIPATION FACTOR: 0.1% MAX. when measured at 1KHz, 25°C
6. INSULATION RESISTANCE (IR): Measured after a charging voltage $100 \pm 15\text{VDC}$ for 1 minute
 - i) If $C \leq .33\mu\text{F}$, $\text{IR} \geq 30,000\text{M}\Omega$
 - ii) If $C \geq .33\mu\text{F}$, $\text{IR} \geq 10,000\text{M}\Omega \cdot \mu\text{F}$.
7. DIELECTRIC STRENGTH TEST: Applied 1075 VDC for 1 minute or 2000VDC for 1 second.
8. HUMIDITY-TEST: Shall withstand the test of RH 95% at 40°C for 21 days. After the test, the capacitance drift $\leq 5\%$, $\text{IR} \geq 50\%$ of specified value.
9. LIFE TEST: The test voltage 313VAC shall be applied for 1008 hours in the $+85^{\circ}\text{C}$ chamber. During this period, 1000VAC 60Hz for a period of 0.1 sec be applied once each hour. After the test, the capacitor must meet the following limits:
 - (A) Capacitance drift $\leq 10\%$ of the initial value.
 - (B) Insulation resistance $\geq 50\%$ of specified value.
10. LEAD PULL TEST: Shall withstand a steady pull of 4kgs applied axially for 10 seconds.
11. LEAD BEND TEST: The test consists of attaching a load of 1kg to the capacitor 90° from the direction of lead egress, the 180° in opposite direction and back to starting point. The lead shall sustain two cycles without breaking.
12. MARKING: Must be legible correct and consists of capacitance capacitance tolerance, rated voltage, type designation climatic category, manufacturer's trade mark "CARLI", date code and recognition marks.



MARKING (Example)



CAPACITANCE	250VAC 275VAC					
	SYMBOL	MFD	W	H	T	P
MPX103	0.01	13	11	5	10	C2
MPX123	0.012	13	11	5	10	C2
MPX153	0.015	13	11	5	10	C2
MPX183	0.018	13	12	6	10	C3
MPX223	0.022	13	12	6	10	C3
MPX273	0.027	13	12	6	10	C3
MPX333	0.033	18	11	5	15	D1
MPX393	0.039	18	11	5	15	D1
MPX473	0.047	18	11	5	15	D1
MPX563	0.056	18	11	5	15	D1
MPX683	0.068	18	11	5	15	D1
MPX823	0.082	18	12	6	15	D2
MPX104	0.1	18	12	6	15	D2
MPX124	0.12	18	13.5	7.5	15	D3
MPX154	0.15	18	14.5	8.5	15	D4
	0.15	26.5	15	6	22.5	E1
MPX224	0.22	18	15.8	10	15	D5
	0.22	26.5	16.8	7	22.5	E2
MPX274	0.27	26.5	17	8.5	22.5	E3
MPX334	0.33	26.5	17	8.5	22.5	E3
MPX394	0.39	26.5	19	10	22.5	E4
MPX474	0.47	26.5	19	10	22.5	E4
	0.47	32	20	11	27.5	F1
MPX564	0.56	32	20	11	27.5	F1
MPX684	0.68	32	20	11	27.5	F1
MPX824	0.82	32	22	13	27.5	F2
MPX105	1.0	32	22	13	27.5	F2