

METALLIZED POLYPROPYLENE (OPP), NON-INDUCTIVE, PLASTIC CASE, INTERFERENCE SUPPRESSORS CLASS X2

INTRODUCTION

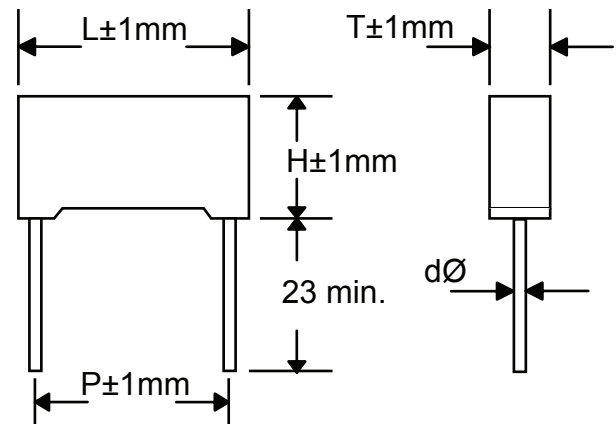
THE TYPE MPXM CAPACITORS are constructed with metallized polypropylene film, dielectric, copper clad steel lead and encapsulated in plastic cases sealed with epoxy resin. They provide Interference Suppression with safety recognition of UL, VDE and others.

APPLICATION

THE TYPE MPXM CAPACITORS are ideal for using in Line-By-Pass, Antenna coupling, Across-The-Line and spark killer circuits and available for EMI filter and switching power supply applications.

FEATURES

- Non-inductive construction.
- Self-healing.
- Flame-retardant plastic case and epoxy resin (compliance with UL 94V-0).
- High moisture-resistance.
- Good solderability (plated with 100% Matte Sn).



Country	Reference Standards	File No.
UL (USA)	UL 1414	E311523
VDE (GERMANY)	VDE 0565 1	40014111
SEV (SWITZERLAND)	NEK EN 132 400 (1994) iec 384 14 11 (1993)/a1 (1995)	05.0562
SEMKO (SWEDEN)	NEK EN 132 400 (1994) iec 384 14 11 (1993)/a1 (1995)	509154
DEMKO (DENMARK)	NEK EN 132 400 (1994) iec 384 14 11 (1993)/a1 (1995)	31526-01
NEMKO (NORWAY)	NEK EN 132 400 (1994) iec 384 14 11 (1993)/a1 (1995)	P0520481
FIMKO (FINLAND)	NEK EN 132 400 (1994) iec 384 14 11 (1993)/a1 (1995)	21882

PART NUMBERING

Part Number Example: MPXM-275/104K10F							
MPXM	-	275	/	104	K	10	F
Type		Rated AC (RMS) Voltage		Capacitance Code (pF)*	Tolerance Code	Lead Spacing	RoHs Compliant

* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).

SPECIFICATIONS

Performance Characteristics	
Operating Temperature Range	-40°C ~ +100°C -40°C ~ +85°C (UL).
Voltage Range (50Hz ~ 60Hz)	275VAC (250VAC for UL).
Withstanding Voltage (between leads)	1075VDC for 60 seconds or 2000VDC for 1 second.
Capacitance Range	0.01µF ~ 2.2µF
Capacitance Tolerance	±5% & ±10%.
Maximum Dissipation Factor % (25°C, 1KHz)	0.1
Minimum Insulation Resistance (23°C) (after 1 minute minimum)	IR ≥ 30000MΩ measured @ 100VDC ± 15VDC (C - 0.33µF). IR ≥ 10000 • µF measured @ 100VDC ± 15VDC (C > 0.33µF).



U.S.A.
MPX



GERMANY



SWITZERLAND



SWEDEN



DENMARK



NORWAY



FINLAND

DIMENSIONS

Code	Size Cap. (µF)	L Maximum (mm)	H Maximum (mm)	T Maximum (mm)	P ± 1 (mm)	dØ (mm)
103	0.010	13.0	9.0	4.0	10.0	0.6
103	0.010	13.0	11.0	5.0	10.0	0.6
123	0.012	13.0	9.0	4.0	10.0	0.6
123	0.012	13.0	11.0	5.0	10.0	0.6
153	0.015	13.0	9.0	4.0	10.0	0.6
153	0.015	13.0	11.0	5.0	10.0	0.6
223	0.027	13.0	11.0	5.0	10.0	0.6
273	0.033	13.0	11.0	5.0	10.0	0.6
333	0.033	13.0	11.0	5.0	10.0	0.6
393	0.039	13.0	12.0	6.0	10.0	0.6
473	0.047	13.0	12.0	6.0	10.0	0.6
563	0.056	13.0	13.0	7.0	10.0	0.6
683	0.068	13.0	13.0	7.0	10.0	0.6
823	0.082	13.0	14.0	8.0	10.0	0.6
823	0.10	18.0	12.0	6.0	15.0	0.8
104	0.12	13.0	16.0	8.0	10.0	0.6
104	0.15	18.0	12.0	6.0	15.0	0.8
124	0.15	18.0	12.0	6.0	15.0	0.8
154	0.18	18.0	13.5	7.5	15.0	0.8
184	0.18	18.0	13.5	7.5	15.0	0.8
224	0.22	18.0	14.5	8.5	15.0	0.8
274	0.27	18.0	15.5	9.5	15.0	0.8
334	0.33	18.0	19.0	11.0	15.0	0.8
394	0.39	18.0	19.0	11.0	15.0	0.8
474	0.47	26.5	17.0	8.5	22.5	0.8
564	0.56	26.5	19.0	10.0	22.5	0.8
684	0.68	26.5	19.0	10.0	22.5	0.8
824	0.82	26.5	20.0	11.0	22.5	0.8
105	1.0	26.5	23.0	14.0	22.5	0.8
105	1.0	32.0	20.0	11.0	27.5	0.8
105	1.2	32.0	22.0	13.0	27.5	0.8
125	1.2	32.0	22.0	13.0	27.5	0.8
155	1.5	32.0	24.5	15.0	27.5	0.8
185	1.8	32.0	24.5	15.0	27.5	0.8
225	2.2	32.0	30.0	15.0	27.5	0.8