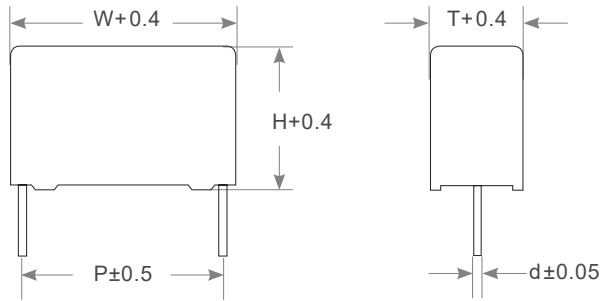
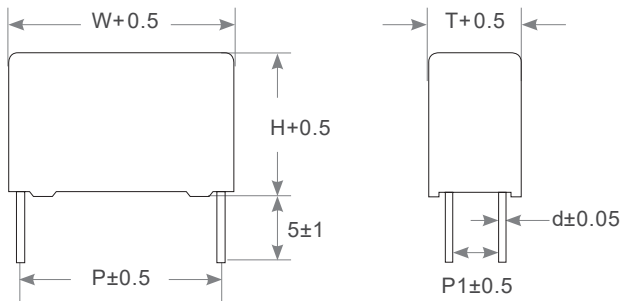


2-PINS
Version



4-PINS
Version



■ **INTRODUCTION**

MKX1 Series are constructed with special metalized Polypropylene film dielectric, copperly lead in plastic cases.

■ **FEATURES**

- Self-healing properties
- Class X1

■ **TYPICAL APPLICATIONS**

- Interference suppressors
- Across the line (Industrial power supply)
- Line-by-pass
- EMI filter

■ **MECHANICAL DATA**

- Dielectric: Metallized Polypropylene Film
- Winding: non-inductive type
- Leads: Tinned copper clad-steel wire
- Outer Coating: Flame retarding plastic case and epoxy filled

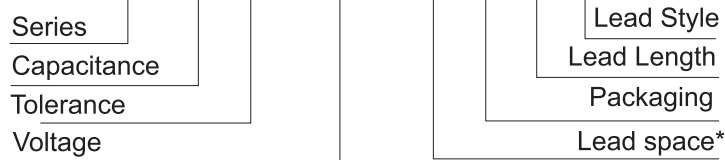
■ **MAXIMUM RATINGS** ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Capacitance Range	0.01 μF ~ 10 μF	
Capacitance Tolerance	$\pm 10\%$ (K), $\pm 20\%$ (M)	
Dissipation Factor	0.01 μF \leq C \leq 1.0 μF , $\leq 0.15\%$ at 1 KHz, 20 $\pm 5^{\circ}\text{C}$ 1.0 μF < C, $\leq 0.2\%$ at 1 KHz, 20 $\pm 5^{\circ}\text{C}$	
Insulation Resistance	Terminal to Terminal: $\geq 15000\text{M}\Omega$ at DC 100V (C $\leq 0.33\mu\text{F}$) $\geq 5000\text{M}\Omega \times \mu\text{F}$ at DC 100V (C > 0.33 μF)	Terminal to Enclosure: $\geq 30000\text{M}\Omega$ at DC 100V $\geq 500\text{M}\Omega$ at DC 500V
Withstand Voltage	[Between terminal] : Test Voltage : 2500VDC Test Time : 2S [Between terminal and enclosure] : Nothing abnormal shall be found when apply a voltage of 2200VAC for 1 minute.	
Climate Category	code letter G and number 40 = Minimum limit temperature.... -40°C code letter M and number 110 = Maximum limit temperature.... $+110^{\circ}\text{C}$ code letter F and number 56 = Maximum limit of Relative Humidity [The days of damp heat test56 days] code letter B = Category of Passive flammability.	

■ ELECTRICAL CHARACTERISTICS (T_a=25°C Unless otherwise specified)

Related Documents	IEC 60384-14, UL 60384-14, EN60384-14, CQC
Rated Voltage (AC)	350VAC (50/60 Hz)
Rated Voltage (DC)	760VDC
Rated Temperature	-40°C ~ +110°C




■ PART NUMBER EXAMPLE MKX1 103 K 350VAC 100 B 200 S



* Leadspace is straight lead non-formed original leadspace.

Capacitance	0.01µF 103	0.022µF 223	0.1µF 104	0.42µF 474	1.0µF 105	3.3µF 335	10µF 106
Tolerance	10% K	20% M					
Lead Space (P)	10mm 100	15mm 150	22.5mm 225	27.5mm 275	37.5mm 375	52.5mm 525	
Packaging	Bulk (loose) B						
Lead Length	20mm 200	5mm 050					
Lead Option	2 Leads A	4 Leads B					

■ SAFETY APPROVALS

LOGO MARK	COUNTRY	APPROVAL STANDARD	APPROVAL NO.	CLASS	CAP. RANGE	RATED VOLTAGE
UL 	U.S.A CANADA	UL 60384-14:2014 CAN/CSA E60384-1/14:2014	E346827	X1	0.001µF ~ 10µF	350 VAc
ENEC 	EUROPE	EN60384-14:2013/ A1:2016 EN60384-14:2013	ENEC-04385	X1	0.001µF ~ 10µF	350 VAc
CQC 	CHINA	GB/T 6346.14-2015	CQC23001385394	X1	0.001µF ~ 10µF	350 VAc

■ DIMENSIONS

Cap. (μF) | (Size unit): mm

R.V.	350VAC						
Size Cap (μF)	W	H	T	P	P1	d ±0.05	Lead Option Suffix
0.01	13.0	9.0	4.0	10.0	n/a	0.6	A
0.015	13.0	9.0	4.0	10.0	n/a	0.6	A
0.022	13.0	10.0	5.0	10.0	n/a	0.6	A
0.033	13.0	11.0	5.0	10.0	n/a	0.6	A
0.039	13.0	12.0	6.0	10.0	n/a	0.6	A
0.047	13.0	12.0	6.0	10.0	n/a	0.6	A
0.056	13.0	13.0	7.0	10.0	n/a	0.6	A
0.068	13.0	13.0	7.0	15.0	n/a	0.6	A
0.033	18.0	11.0	5.0	15.0	n/a	0.8	A
0.047	18.0	11.0	5.0	15.0	n/a	0.8	A
0.068	18.0	12.0	6.0	15.0	n/a	0.8	A
0.1	18.0	13.0	7.0	15.0	n/a	0.8	A
0.15	18.0	14.0	8.0	15.0	n/a	0.8	A
0.22	18.0	16.0	10.0	15.0	n/a	0.8	A
0.33	18.0	19.0	11.0	15.0	n/a	0.8	A
0.1	26.0	14.5	6.0	22.5	n/a	0.8	A
0.15	26.0	15.0	6.0	22.5	n/a	0.8	A
0.22	26.0	16.5	7.0	22.5	n/a	0.8	A
0.33	26.0	17.0	8.5	22.5	n/a	0.8	A
0.47	26.0	19.0	10.0	22.5	n/a	0.8	A
0.56	26.0	20.0	11.0	22.5	n/a	0.8	A
0.68	26.0	22.0	12.0	22.5	n/a	0.8	A
0.82	26.0	24.0	14.0	22.5	n/a	0.8	A

R.V.	350VAC						
Size Cap (μF)	W	H	T	P	P1	d ±0.05	Lead Option Suffix
1.0	26.0	25.0	15.0	22.5	n/a	0.8	A
0.33	31.0	18.0	9.0	27.5	n/a	0.8	A
0.47	31.0	18.0	9.0	27.5	n/a	0.8	A
0.56	31.0	20.0	10.0	27.5	n/a	0.8	A
0.68	31.0	20.0	11.0	27.5	n/a	0.8	A
0.82	31.0	22.0	13.0	27.5	n/a	0.8	A
1.0	31.0	23.5	14.0	27.5	n/a	0.8	A
1.5	31.0	25.5	16.0	27.5	n/a	0.8	A
2.2	31.0	33.0	18.0	27.5	n/a	0.8	A
3.3	31.0	37.0	22.0	27.5	10	0.8	A or B
3.3(M)	41.5	31.5	18.5	37.5	n/a	1.0	A
3.3	41.5	34.0	20.5	37.5	10	1.0	A
4.7(M)	41.5	35.5	22.5	37.5	10	1.0	A or B
4.7	41.5	39.0	24.0	37.5	10	1.0	A or B
5.6(M)	41.5	38.0	25.0	37.5	10	1.0	A or B
5.6	41.5	41.0	27.5	37.5	10	1.0	A or B
6.8(M)	41.5	41.0	27.5	37.5	10	1.0	A or B
6.8	41.5	45.0	30.0	37.5	10	1.0	A or B
8.2(M)	41.5	45.0	30.0	37.5	10	1.0	A or B
8.2	41.5	45.0	32.0	37.5	10	1.0	A or B
8.2	58.0	45.0	30.0	52.5	10	1.2	A or B
10.0	58.0	50.0	38.0	52.5	20	1.2	A or B