

# Advance 250/275/310Vac EMI Suppression Capacitors- X2 type



## GENERAL :

- ◆ Non Polar
- ◆ Self Healing
- ◆ Low ESR
- ◆ High Insulation Resistance
- ◆ Low Losses

Class X2 capacitors are used for Interference Suppression and across-the-line applications. Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

## APPLICATIONS :

- ◆ RFI Filters
- ◆ Switch Mode Power Supplies
- ◆ Power Line Frequency Applications
- ◆ Measuring Instruments

## STYLES :

Type Code : MKP-5 / X2 : Axial Lead                      MKP-4 / X2 : Radial Lead

STANDARDS : IEC- 384-14

## GENERAL TECHNICAL DATA

Dielectric : Metallised Polypropylene Film  
Winding : Non-Inductive type  
Leads : Tinned wire  
Climatic Category : 40/85/21  
Marking : Manufacturer's name, capacitance, Tolerance, rated voltage, style code, manufacturing date code and batch no.  
Temperature Range : -40 °C to +85 °C

## ELECTRICAL CHARACTERISTICS

Rated Voltage : 250/275/310Vac; 50Hz  
Capacitance Range : 0.0022 $\mu$ F to 5.6 $\mu$ F  
Tolerance :  $\pm$ 1%,  $\pm$ 2%,  $\pm$ 5%,  $\pm$ 10%,  $\pm$ 20%  
Tan Delta (C < 1 $\mu$ F) : 0.001 at 1 KHz  
Insulation Resistance at 100Vdc : 5,000 Mohm x  $\mu$ F  
15000Mohm max.  
Test Voltage X2 : 4.3 times rated voltage  
Pulse Rise Time : 40 to 100 V/ $\mu$ S  
Impulse Voltage X2 : 2.5 KV as per IEC 384-14  
(for rated voltage  $\geq$  250Vac)

## **Registered Office and Factory:**

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### Dimensions:

Type	Capacitance in $\mu\text{F}$	D in mm	L in mm	d in mm
	0.01	6	15	0.6
	0.047	7	19	0.6
	0.068	8	19	0.6
	0.1	10	19	0.8
	0.15	12	19	0.8
	0.22	11	27	0.8
	0.33	13	27	0.8
	0.47	13	27	0.8
	0.68	16	32	0.8
	1	19	32	0.8
	1.5	19	45	0.8
	2.2	23	45	0.8
	3.3	28	45	1.0
	4.7	32.5	45	1.0
	5.6	35.5	45	1.0

  

Type	Capacitance in $\mu\text{F}$	W mm	L mm	H mm	MK Radial	0.00 22
MKP-4 X2 Radial	0.0022	5	10.5	10.5		0.01
	0.01	5	13	10.5		0.04 7
	0.047	6	18	12		0.06 8
	0.068	6	18	12		0.1
	0.1	7.5	18	13.5		0.15
	0.15	8.5	26.5	17		0.22
	0.22	10	26	18.5		0.33
	0.33	11	32	21		0.47
	0.47	15	32.5	24		0.68
	0.68	15	32.5	24		1
	1	15	32.5	24	27.5	0.8

