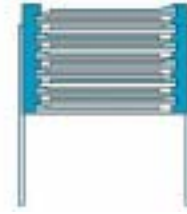







# Interference Suppression Capacitor

MKP-X2

THB-Version- Temperature Humidity Bias



-  Metallized Polypropylene Film
-  Metal spray layer
-  Connecting wire

## Construction:

- Dielectric : Polypropylene Film.
- Electrodes : Zinc Metallization.
- Winding : non-inductive type.
- Leads : Tinned copper clad-steel wire.
- Outer coating : Flame retarding plastic case and epoxy filled.

## Feature:

Excellent longterm-stability under tough environmental conditions - such as high ambient temperatures and high humidity  
 Self-healing properties.  
 In accordance with UL , CUL , ENEC , CQC safety regulations  
 Class X2

## Recommended Application:

All applications with high demand on excellent longterm-stability, such as:

- Power Meters
- Capacitive Power Supply applications
- Outdoor applications
- Automotive electronics
- for connection in series with the mains

## Electrical Characteristics:

Related Documents	EN 132400 / IEC 60384-14 , UL 1414 , UL 1283 , DIN 40040.			
Rated Voltage	275VAC (IEC 60384-14) , 310VAC (UL , CUL).			
Rated Temperature	-40°C ~ +110°C (IEC 60384-14 , UL , CUL).			
Capacitance Range	0.047μF ~ 2.2μF.			
Dissipation Factor	0.1% or less. at 1Khz , 20± 5°C			
Insulation Resistance	Terminal to Terminal:		Terminal to Enclosure:	
	$\geq 15000M\Omega$ at DC 100V ( $C \leq 0.33\mu F$ ) $\geq 5000M\Omega \times \mu F$ at DC 100V ( $C > 0.33\mu F$ )		$\geq 30000M\Omega$ at DC 100V $\geq 500M\Omega$ at DC 500V	
Withstand Voltage	[Between terminal] :			
	Nothing abnormal shall be found when apply a voltage specified below for 1 minute $C \leq 0.0068\mu F$ : AC 1500V or DC 2121V , $C > 0.0068\mu F$ : AC 1000V or DC 1768V. Cut-off Current AC : 2A , DC : 10mA 1. Above test must connected with a current limiting resistance of 1 Ω / Voltage. 2. Slow-up voltage speed : 100V/sec.			
Rated Voltage Pulse Slope dV/dt (V/μs ) at 389VDC	[Between terminal and enclosure] :			
	Nothing abnormal shall be found when apply a voltage of 2050Vac for 1 minute.			
Rated Voltage Pulse Slope dV/dt (V/μs ) at 389VDC	Pitch	15m/m	22.5m/m	27.5m/m
	$V_R$	300	180	120
Climate Category	code letter G and number 40 = Minimum limit temperature.... -40°C. code letter M and number 110 = Maximum limit temperature.... +110°C. code letter F and number 56 = Maximum limit of Relative Humidity The days of damp heat test..... 56 days. code letter B = Category of Passive flammability.			






# Interference Suppression Capacitor

Reliability Test:

Test Method	Requirements
Temperature: 85 Relative humidity: 85% Voltage applied: 240 VAC Duration: 1000 hours	Capacitance change C/C : $\pm 10\%$ DF change $\Delta \tan \delta$ 1.0% at 1Khz Insulation Resistance: 50% of spec value

## SAFETY APPROVALS :

LOGO MARK	COUNTRY	APPROVAL STANDARD	APPROVAL NO.	CLASS	CAP. RANGE	RATED VOLTAGE
UL CUL 	U.S.A CANADA	UL-1414 UL-1283	E149075 E221690	FOWX2 FOKY2	0.0047 $\mu$ F ~ 1.0 $\mu$ F 0.0047 $\mu$ F ~ 10 $\mu$ F	250VAC 310VAC
CB TEST	SEMKO	IEC-60384-14 SECOND EDITION	SE-56849	X2	0.0047 $\mu$ F ~ 10 $\mu$ F	275VAC
ENEC 	SEMKO	EN-132400 IEC-60384-14 SECOND EDITION	SE/0252-2A	X2	0.0047 $\mu$ F ~ 10 $\mu$ F 40/110/56/B	275VAC
CQC 	CHINA	GB/T14472 (1998)	CQC02001002548 CQC07001020389	X2	0.0047 $\mu$ F ~ 10 $\mu$ F	275VAC

Cap. ( $\mu$ F)

Size unit: m/m

Cap \ Size	W	H	T	P	d $\phi$
0.047	18	11	5	15	0.8
0.068	18	12	6	15	0.8
0.1	18	13	7	15	0.8
0.15	18	13.5	7.5	15	0.8
0.22	18	15	9	15	0.8
0.33	18	18	10	15	0.8
0.47	18	19	12.5	15	0.8
0.15	26	14.5	6	22.5	0.8
0.22	26	15	7.5	22.5	0.8
0.33	26	17	8	22.5	0.8
0.47	26	19	10	22.5	0.8

Cap \ Size	W	H	T	P	d $\phi$
0.56	26	20	10	22.5	0.8
0.68	26	20	11.5	22.5	0.8
0.82	26	22	12	22.5	0.8
1.0	26	24	13.5	22.5	0.8
0.47	31	18	9	27.5	0.8
0.56	31	20	10	27.5	0.8
0.68	31	20	10	27.5	0.8
0.82	31	21	11	27.5	0.8
1.0	31	22	13	27.5	0.8
1.5	31	24.5	15	27.5	0.8
2.2	31	28	18	27.5	0.8

\* available in bulk, or in taped/reel for pitch 15mm, pitch 22.5m and pitch 27.5mm.\*