

## X2-CLASS FILM CAPACITOR

### TYPE : MEX-X2

(MAIN INTERFERENCE SUPPRESSION CAPACITORS)

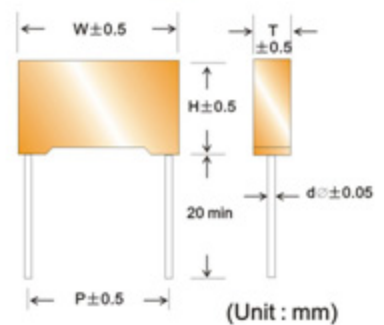
- Class "X2"  
UL 1414 (250V AC), CAN/CSA-C22.2 NO. 1-94(250V AC)  
VDE SEV NEMKO DEMKO SEMKO FIMKO:  
DIN EN 132 400(1994)/IEC 384-14(1993) AND IEC DRAFT 40 (SEC)677
- Ideal for using in Line-By-Pass, Antenna Coupling, Across-The-Line and Spark killer circuits and available for EMI filter and switching power supply and radio-and monitor, television application.
- Flame retardant plastic cases and epoxy resin. (compliance with UL 94V-0)
- Self-healing properties.
- Proven series wound construction.
- Approved By : UL, CSA, VDE, SEV, NEMKO, DEMKO, SEMKO, FIMKO, CCEE, KTL, ENEC.



#### SPECIFICATIONS:

OPERATING TEMPERATURE	-40 ~ +100°C
RATED VOLTAGE	275VAC
CAPACITANCE RANGE	0.001 - 2.2 μ F
DIELECTRIC STRENGTH	Applied 1183VDC for 1minute or 2000VDC for 1 second.
CAPACITANCE TOLERANCE	±5% (J) ±10% (K) ±20% (M)
INSULATION RESISTANCE	Measured after a charging voltage 100±15VDC for 1minutes (1) LESS THAN OR EQUAL TO 0.33 μ F ≥ 30. 000M Ω (2) GREATER THAN 0.33 μ F ≥ 10,000 M Ω μ F
DISSIPATION FACTOR	0.1%MAX. at 1KHZ
MAXIMUM PULSE RISE TIME	250 VAC: 120 V/microsecond.

#### TYPE : MEX-X2



μ F	SIZE	W	H	T	P	d∅	μ F	SIZE	W	H	T	P	d∅
0.001		13.0	9.0	4.0	10.0	0.6	0.18		18.0	14.5	8.5	15.0	0.8
0.0012		13.0	9.0	4.0	10.0	0.6	0.18		26.5	16.5	7.0	22.5	0.8
0.0015		13.0	9.0	4.0	10.0	0.6	0.22		18.0	14.5	8.5	15.0	0.8
0.0018		13.0	9.0	4.0	10.0	0.6	0.22		26.5	16.5	7.0	22.5	0.8
0.0022		13.0	9.0	4.0	10.0	0.6	0.27		26.5	17.0	8.5	22.5	0.8
0.0027		13.0	9.0	4.0	10.0	0.6	0.33		18.0	16.0	10.0	15.0	0.8
0.0033		13.0	9.0	4.0	10.0	0.6	0.33		26.5	16.5	7.0	22.5	0.8
0.0039		13.0	9.0	4.0	10.0	0.6	0.33		26.5	17.0	8.5	22.5	0.8
0.0047		13.0	11.0	5.0	10.0	0.6	0.39		26.5	19.0	10.0	22.5	0.8
0.0056		13.0	11.0	5.0	10.0	0.6	0.47		18.5	19.0	10.0	15.0	0.8
0.0068		13.0	11.0	5.0	10.0	0.6	0.47		26.5	17.0	8.5	22.5	0.8
0.0082		13.0	11.0	5.0	10.0	0.6	0.47		26.5	19.0	10.0	22.5	0.8
0.01		13.0	11.0	5.0	10.0	0.6	0.47		32.0	20.0	11.0	27.5	0.8
0.012		13.0	11.0	5.0	10.0	0.6	0.56		26.5	19.0	10.0	22.5	0.8
0.015		13.0	11.0	5.0	10.0	0.6	0.56		32.0	20.0	11.0	27.5	0.8
0.018		13.0	12.0	6.0	10.0	0.6	0.68		26.5	19.0	10.0	22.5	0.8
0.022		13.0	12.0	6.0	10.0	0.6	0.68		32.0	20.0	11.0	27.5	0.8
0.027		13.0	12.0	6.0	10.0	0.6	0.82		32.0	22.0	13.0	27.5	0.8
0.033		13.0	12.0	6.0	10.0	0.6	1.0		26.5	23.0	14.0	22.5	0.8
0.033		18.0	11.0	5.0	15.0	0.6	1.0		32.0	20.0	11.0	27.5	0.8
0.039		18.0	11.0	5.0	15.0	0.6	1.0		32.0	23.0	13.0	27.5	0.8
0.047		13.0	12.0	6.0	10.0	0.6	1.0		37.0	25.0	13.0	31.5	0.8
0.047		18.0	11.0	5.0	15.0	0.8	1.2		32.0	25.0	14.0	27.5	0.8
0.056		18.0	12.0	6.0	15.0	0.8	1.2		37.0	25.0	13.0	31.5	0.8
0.068		18.0	12.0	6.0	15.0	0.8	1.5		32.0	28.0	17.0	27.5	0.8
0.082		18.0	12.0	6.0	15.0	0.8	1.5		37.0	26.0	15.0	31.5	0.8
0.1		18.0	12.0	6.0	15.0	0.8	1.8		32.0	28.0	17.0	27.5	0.8
0.1		18.0	13.5	6.0	15.0	0.8	1.8		38.0	26.0	17.0	31.5	0.8
0.12		18.0	13.5	7.5	15.0	0.8	2.2		32.0	28.0	17.0	27.5	0.8
0.15		18.0	13.5	7.5	15.0	0.8	2.2		32.0	30.0	15.0	27.5	0.8
0.15		18.0	14.5	7.5	15.0	0.8	2.2		37.0	29.0	19.0	31.5	0.8
0.15		26.5	15.0	6.0	22.5	0.8							

Please contact us for special item or size not listed.

## TYPE : MEX-X2 (MINI MEX-X2)

(MAIN INTERFERENCE SUPPRESSION CAPACITORS)

1. Class "X2"

UL 1414 (250V AC), CAN/CSA-C22.2 NO. 1-94(250V AC)

VDE SEV NEMKO DEMKO SEMKO FIMKO :

DIN EN 132 400(1994)/IEC 384-14(1993) AND IEC DRAFT 40 (SEC)677

2. 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 and radio-and monitor, television application.

3. Flame retardent plastic cases and epoxy resin. (compliance with UL 94V-0)

4. Self-healing properties.

5. Proven series wound construction.

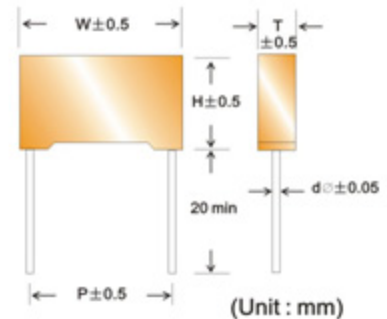
6. Approved By : UL, CSA, VDE, SEV, NEMKO, DEMKO, SEMKO, FIMKO, CCEE, KTL, ENEC.



### SPECIFICATIONS:

OPERATING TEMPERATURE	-40 ~ +100°C
RATED VOLTAGE	275VAC
CAPACITANCE RANGE	0.001 - 2.2 $\mu$ F
DIELECTRIC STRENGTH	Applied 1183VDC for 1minute or 2000VDC for 1 second.
CAPACITANCE TOLERANCE	$\pm$ 5% (J) $\pm$ 10% (K) $\pm$ 20% (M)
INSULATION RESISTANCE	Measured after a charging voltage 100 $\pm$ 15VDC for 1minutes (1) LESS THAN OR EQUAL to 0.33 $\mu$ F $\geq$ 30, 000M $\Omega$ (2) GREATER THAN 0.33 $\mu$ F $\geq$ 10,000 M $\Omega$ $\mu$ F
DISSIPATION FACTOR	0.1%MAX. at 1KHZ
MAXIMUM PULSE RISE TIME	250 VAC: 120 V/microsecond.

### TYPE : MEX-X2



$\mu$ F SIZE	W	H	T	P	d $\phi$	$\mu$ F SIZE	W	H	T	P	d $\phi$
0.001	10.5	9.0	4.0	7.5	0.6	0.1	13.0	12.0	6.0	10.0	0.6
0.0012	10.5	9.0	4.0	7.5	0.6	0.1	18.0	11.0	5.0	15.0	0.6
0.0015	10.5	9.0	4.0	7.5	0.6	0.12	18.0	12.0	6.0	15.0	0.8
0.0018	10.5	9.0	4.0	7.5	0.6	0.15	18.0	12.0	6.0	15.0	0.8
0.0022	10.5	9.0	4.0	7.5	0.6	0.18	18.0	13.5	6.0	15.0	0.8
0.0027	10.5	9.0	4.0	7.5	0.6	0.22	18.0	13.5	6.0	15.0	0.8
0.0033	10.5	9.0	4.0	7.5	0.6	0.22	18.0	13.5	7.5	15.0	0.8
0.0039	10.5	9.0	4.0	7.5	0.6	0.27	18.0	13.5	7.5	15.0	0.8
0.0047	10.5	11.0	5.0	7.5	0.6	0.33	18.0	14.5	8.5	15.0	0.8
0.0056	10.5	11.0	5.0	7.5	0.6	0.33	26.5	15.0	6.0	22.5	0.8
0.0068	10.5	11.0	5.0	7.5	0.6	0.39	18.0	14.5	8.5	15.0	0.8
0.0082	10.5	11.0	5.0	7.5	0.6	0.47	18.0	16.0	10.0	15.0	0.8
0.01	10.5	12.0	6.0	7.5	0.6	0.47	26.5	16.5	7.0	22.5	0.8
0.012	10.5	12.0	6.0	7.5	0.6	0.56	18.0	16.0	10.0	15.0	0.8
0.015	10.5	12.0	6.0	7.5	0.6	0.68	18.0	19.0	10.0	15.0	0.8
0.018	10.5	12.0	6.0	7.5	0.6	0.82	26.5	19.0	10.0	22.5	0.8
0.022	10.5	12.0	6.0	7.5	0.6	1.0	26.5	19.0	10.0	22.5	0.8
0.027	13.0	9.0	4.0	10.0	0.6	1.0	32.0	18.0	9.0	27.5	0.8
0.033	13.0	9.0	4.0	10.0	0.6	1.2	26.5	20.0	11.0	22.5	0.8
0.039	13.0	9.0	4.0	10.0	0.6	1.5	26.5	23.0	14.0	22.5	0.8
0.047	13.0	11.0	5.0	10.0	0.6	1.5	32.0	20.0	11.0	27.5	0.8
0.056	13.0	11.0	5.0	10.0	0.6	1.8	32.0	22.0	13.0	27.5	0.8
0.068	13.0	12.0	6.0	10.0	0.6	2.2	32.0	25.0	14.0	27.5	0.8
0.082	13.0	12.0	6.0	10.0	0.6						

Please contact us for special item or size not listed.

## X2-CLASS FILM CAPACITOR

### TYPE : MEX-PR

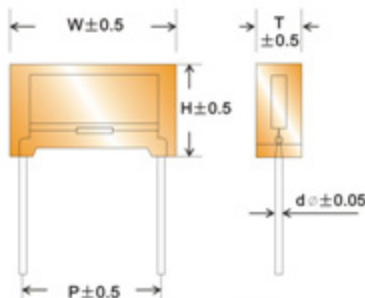
#### TECHNICAL DATA:

Construction:-capacitor:	Polypropylene film, metallized metaloxide film
-resistor:	275V A.C, 300V A.C
Rated voltage:	$\pm 20\%$ (M) and $\pm 10\%$ (K)
Capacitance tolerance:	40/100/21
Climatic category:	according to IEC publ. 60068-1
Passive flammability:	according to EN 132 400
Temperature range:	-40°C to +100°C
Test voltage:	1500V D.C., 2s
Dielectric loss $\tan \delta$ at f=1KHz and 20°C:	$\leq 2.5\%$
Soldering:	IEC publ. 60068-2-20, max 2 s
Soldering time on printed circuit:	max. 5 s at 270°C
Complies to:	IEC publ. 60384-14; EN 132 400



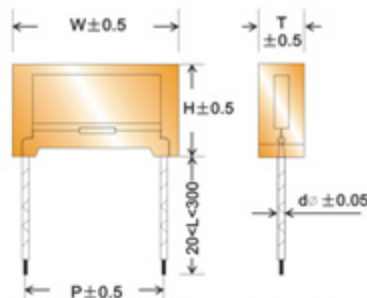
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 Week of manufacture

#### X2-PR-XP



Casing: thermoplastic, sealed with synthetical resin

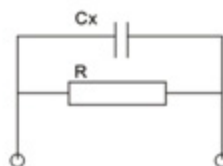
#### X2-PR-XV1



Thermoplastic material is self extinguishing according to UI94, class V-0

#### X2-PR-XV2

Circuit:



#### Terminals

Type	Terminal length	Type of terminals
X2-PR-XP	4 ± 0.5, 6-1, 25 ± 5mm other on request	Tinned copper wire
X2-PR-XV1	20 to 300mm	Insulated stranded wire 0.5mm <sup>2</sup>
X2-PR-XV2	20 to 300mm	Insulated solid wire $\phi$ 0.8mm <sup>2</sup> End terminals on request

#### Standard values With discharge resistor:

Capacitance $\mu$ F	Resistance K $\Omega$	Dimensions				
		W	H	T	P	d $\phi$
0.01	470 to 4700	18.0	13.5	6.0	15.0	0.6
0.022		18.0	13.5	6.0	15.0	0.6
0.033		18.0	13.5	6.0	15.0	0.8
0.047		18.0	13.0	7.5	15.0	0.8
0.068		18.0	14.5	8.5	15.0	0.8
0.1		18.0	16.0	10.0	15.0	0.8
0.15		18.0	18.0	10.0	15.0	0.8
0.22		26.5	19.0	10.0	22.5	0.8
0.33		26.5	19.0	10.0	22.5	0.8
0.47		32.0	22.0	13.0	27.5	0.8
0.68		32.0	25.0	14.0	27.5	0.8
1.0		32.0	30.0	15.0	27.5	0.8

## TYPE : MEX-SR

### FEATURES

1. Spark killer Composed of capacitor and resistor.
2. Suitable for absorbing surge voltage and protecting contact of relay and switch etc.

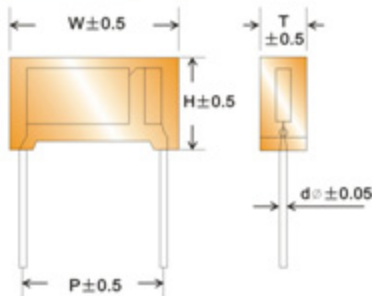
### SPECIFICATIONS:

CATEGORY GEMPERTURE	-40~ +100°C
CAPACITANCE RANGE	0.01 – 0.47 $\mu$ F
RATED VOLTAGE(U <sub>R</sub> )	275VAC, 300,VAC
CAPACITANCE TOLERANCE	$\pm$ 10% (K) $\pm$ 20% (M)
RESITANCE TOLERANCE	$\pm$ 10% (K)
VOLTAGE PROFF	U <sub>R</sub> x 230% 60S
INSULATION RESISTANCE	30,000M $\Omega$ min.



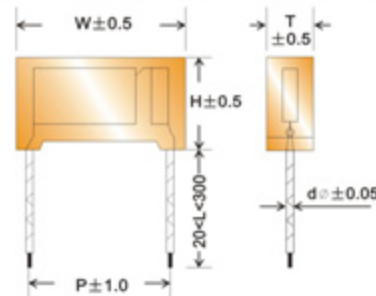
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### X2-SR-XP



Casing: thermoplastic, sealed with synthetical resin

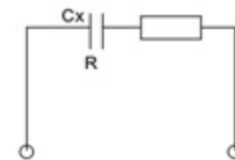
### X2-SR-XV1



Thermoplastic material is self extinguishing according to UI94, class V-0

### X2-SR-XV2

Circuit:



### Terminals

Type	Terminal length	Type of terminals
X2-SR-XP	4±0.5, 6-1, 25±5mm other on request	Tinned copper wire
X2-SR-XV1	20 to 300mm	Insulated stranded wire 0.5mm <sup>2</sup>
X2-SR-XV2	20 to 300mm	Insulated solid wire $\phi$ 0.8mm <sup>2</sup> End terminals on request

### Standard values With discharge resistor:

Capacitance $\mu$ F	Resitance K $\Omega$	Dimensions				
		W	H	T	P	d $\phi$
0.01	10 to 2000	18.0	13.5	6.0	15.0	0.6
0.022		18.0	13.0	7.5	15.0	0.6
0.033		18.0	14.5	8.5	15.0	0.6
0.047		18.0	16.0	10.0	15.0	0.8
0.068		18.0	16.0	10.0	15.0	0.8
0.1		26.5	17.0	8.5	22.5	0.8
0.15		26.5	19.0	10.0	22.5	0.8
0.22		26.5	19.0	10.0	27.5	0.8
0.33		32.0	20.0	11.0	27.5	0.8
0.47		32.0	22.0	13.0	27.5	0.8