

# MEX



## 金屬化聚乙脂膜電容器

# METALIZED POLYESTER FILM CAPACITOR (INTERFERENCE SUPPRESSORS CLASS --- X2)

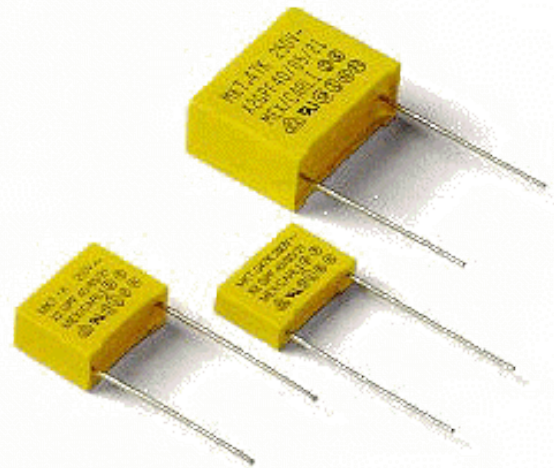
MEX CAPACITORS are constructed with metalized Polyester film dielectric, copperply lead, encapsulated in plastic case with epoxy resin sealed. They provide interference Suppression with safety approvals of EN132400, IEC384-14, UL 1414(125VDC) file No. E120045 and VDE 0585-1 class X2 (250VDC) file No. 15031-4670-1D02.

### Application:

THE TYPE-MAX CAPACITORS are ideal for using Line-By-Pass, Antenna coupling, Accross -The-line and (Spark killer circuits and available for EMI filter and switching power supply application.

### FEATURES:

- Non-induction construction.
- Self-healing property.
- Flame-retardant plastic case and epoxy resin.  
(compliance with UL 94V- 0)
- High-moisture resistance.
- Good solderability.



### SPECIFICATION:

#### 1. OPERATING TEMPERATURE RANG:

- 40°C ~+85°C

#### 2. CAPACITANCE RANGE :

.01 ~ 1  $\mu$  F

#### 3. CAPACITANCE TOLERANCE:

J =  $\pm$  5%

K =  $\pm$  10%

M =  $\pm$  20%

#### 4. RATED VOLTAGE:

125VAC/ 250VAC

50HZ - 60HZ

#### 5. DISSIPATION FACTOR:

1.0% MAX when measured at 1KHz. 25°C

#### 6. INSULATION RESISTANCE (IR):

Measured after a charging voltage 100  $\pm$  15VDC for 1 minute

i) if C  $\leq$  .33  $\mu$  F, IR >15,000 M $\Omega$

ii) if C  $\geq$  .33  $\mu$  F, IR >5,000 M $\Omega$

#### 7. DIELECTRIC STRENGTH TEST:

Applied 1075 VDC for 1 minute or 2000 VDC for 1 second.

#### 8. HUMIDITY- TEST:

Shall withstand the test of RH 95% at 40°C for 21 day. After the test, the capacitance drift  $\leq$  5%, 1R  $\geq$  50% of specified value.

#### 9. LIFE TEST:

The test voltage 313VDC shall be applied for 1008 hours in the + 85 °C chamber. During this period, 1000 VDC 60Hz for a period 0.1 sec be applied once each hour. After the test, the capacitor must meet the following limits.

(A) Capacitance drift  $\leq$  10% of initialvalue.

(B) Insulation resistance  $\geq$  50% of specified value.

#### 10. LEAD PULL TEST:

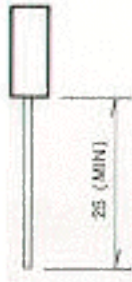
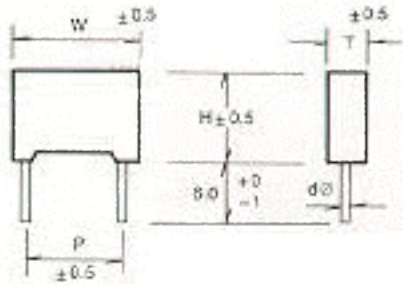
Shall withstand a steady pull of 4kgs applied axially for 10 seconds.

#### 11. LEAD BEND TEST:

The test consists of attaching a load of 1kg to the capacitor 90° from the direction of lead egress, the 180° in opposite direction and back to starting point. The lead shall sustain two cycles without breaking.

#### 12. MARKING:

Must be legible correct and consists of capacitance tolerance, rated voltage, type designation climatic category, manufacturer's trade mark "CARLI ", date and recognition marks.



## MARKING (Example)



## CLASS X2 DIMENSIONS :

CAPACITANCE		250VAC				
SYMBOL	MFD	W	H	T	P	d ø
MEX103	.01	13	11	5	10	0.6
MEX123	.012	13	11	5	10	0.6
MEX153	.015	13	11	5	10	0.6
MEX183	.018	13	11	5	10	0.6
MEX223	.022	13	12	6	10	0.6
MEX273	.027	13	12	6	10	0.6
MEX333	.033	18	11	5	15	0.6
MEX393	.039	18	11	5	15	0.6
MEX473	.047	18	11.5	5	15	0.8
MEX563	.056	18	12	6	15	0.8
MEX683	.068	18	12	6	15	0.8
MEX823	.082	18	13.5	7.5	15	0.8
MEX104	.1	18	13.5	7.5	15	0.8
MEX124	.12	18	14.5	8.5	15	0.8
MEX154	.15	18	14.5	8.5	15	0.8
	.15	26.5	16.5	7	22.5	0.8
MEX184	.18	26.5	16.5	7	22.5	0.8
MEX224	.22	26.5	17	7	22.5	0.8
MEX274	.27	26.5	19	8.5	22.5	0.8
MEX334	.33	26.5	19.5	9	22.5	0.8
MEX394	.39	26.5	19.5	11	22.5	0.8
MEX474	.47	26.5	20	11	22.5	0.8
	.47	32	20	10	27.5	0.8
MEX564	.56	32	20	11	27.5	0.8
MEX684	.68	32	20	11	27.5	0.8
MEX824	.82	32	22	13	27.5	0.8
MEX105	1.0	32	25	14.5	27.5	0.8