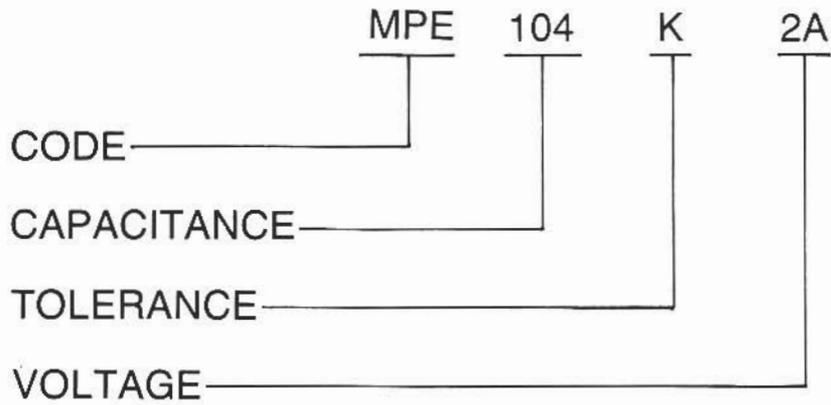


# FILM CAPACITORS

## HOW TO ORDER



### TOLERANCE

Tolerance	±1%	±2%	±2.5%	±3%	±5%	±10%	±20%
Symbols	F	G	H	I	J	K	M

### CAPACITANCE CODE EXPRESSION

CODE	101	102	103	104	105	106
PF	100PF	1,000PF	10,000PF	100,000PF		
NF	—	1NF	10NF	100NF	1000NF	
μ F	—	0.001 μ F	0.01 μ F	0.1 μ F	1 μ F	10 μ F

### VOLTAGE CODE EXPRESSION

CODE	1H	2A	2B	2D	2E	2G	2H	2J	3A	3B	3C	3D
WVDC	50V	100V	125V	200V	250V	400V	500V	630V	1000V	1250V	1600V	2000V

# POLYESTER FILM CAPACITOR

## Type: PEI (Inductive)

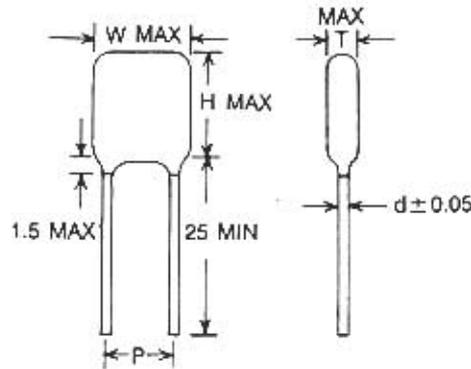
PEI are constructed with polyester film dielectric aluminum foil electrode, copperplated lead and epoxy resin coating in inductive type. They are suitable for blocking, by-pass and coupling of DC and signal to VHF range, timing circuits, filtering and other general purpose usage and are ideal for use in TV, radio, taperecorder, stereo equipments and other general electronic equipments.

### FEATURES:

- High moisture resistance
- Good solderability
- Available on tape and reel for automatic insertion.
- ESR is minimized

### SPECIFICATION:

1. OPERATING TEMPERATURE:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
2. CAPACITANCE RANGE:  $0.001 \mu\text{F} \sim 0.47 \mu\text{F}$ .
3. CAPACITANCE TOLERANCE:  $\pm 5\%$ (J),  $\pm 10\%$ (K),  $\pm 20\%$ (M).
4. RATED VOLTAGE: 50VDC, 100VDC, 250VDC, 400VDC.
5. DISSIPATION FACTOR: 1.0% MAX AT 1KHz  $25^{\circ}\text{C}$
6. INSULATION RESISTANCE:  $>20000 \text{ M}\Omega$  ( $C \leq 0.1 \mu\text{F}$ )  
 $>2000 \text{ M}\Omega \cdot \mu\text{F}$  ( $C > 0.1 \mu\text{F}$ )



Unit: mm

RV SIZE CAP(μF)	50 VDC / 100 VDC					250 VDC					400 VDC				
	W	H	T	P ± 1	dφ	W	H	T	P ± 1	dφ	W	H	T	P ± 1	dφ
0.0010	6.0	11.0	4.0	3.5	0.5	6.0	11.0	4.0	3.5	0.5	7.0	11.5	4.0	4.0	0.5
0.0012	6.0	11.0	4.0	3.5	0.5	6.0	11.0	4.0	3.5	0.5	7.2	12.0	4.0	4.0	0.5
0.0015	6.0	11.0	4.0	3.5	0.5	6.0	11.0	4.0	3.5	0.5	7.2	12.0	4.0	4.0	0.5
0.0018	6.0	11.0	4.0	3.5	0.5	6.0	11.0	4.0	3.5	0.5	7.5	12.5	4.0	4.0	0.5
0.0022	6.0	11.0	4.0	3.5	0.5	6.0	11.0	4.0	3.5	0.5	7.5	12.5	4.0	4.0	0.5
0.0027	7.0	11.0	4.0	3.5	0.5	7.0	11.0	4.0	3.5	0.5	8.0	13.0	4.5	6.0	0.5
0.0033	7.0	11.0	4.0	3.5	0.5	7.0	11.0	4.0	3.5	0.5	8.0	13.0	4.5	6.0	0.5
0.0039	7.0	11.0	4.0	4.0	0.5	7.0	11.0	4.0	4.0	0.5	9.0	14.0	5.0	6.0	0.5
0.0047	7.0	11.0	4.0	4.0	0.5	7.0	11.0	4.0	4.0	0.5	9.0	14.0	5.0	6.0	0.5
0.0056	7.0	11.0	4.0	4.0	0.5	7.0	11.0	4.0	4.0	0.5	9.5	14.0	5.5	6.0	0.5
0.0068	7.0	11.0	4.0	4.0	0.5	7.0	11.0	4.0	4.0	0.5	9.5	14.0	5.5	6.0	0.5
0.0082	7.0	11.0	4.0	4.0	0.5	7.0	11.0	4.0	4.0	0.5	10.5	15.0	6.7	7.0	0.5
0.010	7.0	11.0	4.0	4.0	0.5	7.0	11.0	4.0	5.0	0.5	10.5	15.0	6.7	7.0	0.5
0.012	7.0	11.0	4.0	4.0	0.5	8.0	13.5	4.5	5.0	0.5	12.0	15.5	8.0	7.0	0.5
0.015	8.0	11.0	4.0	4.0	0.5	8.0	13.5	4.5	5.0	0.5	12.0	15.5	8.0	7.0	0.5
0.018	8.0	11.0	4.0	4.0	0.5	9.0	14.0	6.0	6.5	0.5	12.0	18.5	8.0	7.0	0.6
0.022	8.0	12.0	4.0	5.0	0.5	9.0	14.0	6.0	6.5	0.5	12.0	18.5	8.0	7.0	0.6
0.027	8.0	12.0	4.5	5.0	0.5	10.0	15.0	6.5	6.5	0.5	13.5	21.0	8.0	9.0	0.6
0.033	9.0	13.0	4.5	5.5	0.5	10.0	15.0	6.5	6.5	0.5	13.5	21.0	8.0	9.0	0.6
0.039	9.0	13.0	5.0	6.0	0.5	12.5	17.5	8.5	6.5	0.6	15.5	22.0	9.5	9.0	0.6
0.047	10.0	13.0	5.0	6.0	0.5	12.5	17.5	8.5	6.5	0.6	15.5	22.0	9.5	9.0	0.6
0.056	10.0	13.5	5.5	6.0	0.5	13.8	21.0	8.5	7.5	0.6	17.5	23.5	11.5	9.0	0.6
0.068	10.0	13.5	6.0	6.5	0.5	13.8	21.0	8.5	7.5	0.6	17.5	23.5	11.5	9.0	0.6
0.082	11.0	13.5	6.0	7.0	0.5	16.0	22.0	9.5	8.5	0.6	19.0	24.5	11.0	11.5	0.6
0.10	11.0	14.0	6.5	7.5	0.5	16.0	22.0	9.5	8.5	0.6	19.0	24.5	11.0	11.5	0.6
0.12	13.0	14.0	6.5	9.0	0.5										
0.15	13.0	15.0	7.0	9.0	0.5										
0.18	14.0	16.0	7.0	9.5	0.5										
0.22	14.0	17.0	7.5	9.5	0.5										
0.27	15.0	17.0	9.0	9.5	0.5										
0.33	16.5	19.0	9.5	10.0	0.5										
0.39	17.0	20.0	10.5	10.0	0.5										
0.47	17.0	21.0	11.0	10.0	0.5										



METALLIZED POLYESTER FILM CAPACITOR  
Type: MES (Radial Dipped) Super Miniature Size

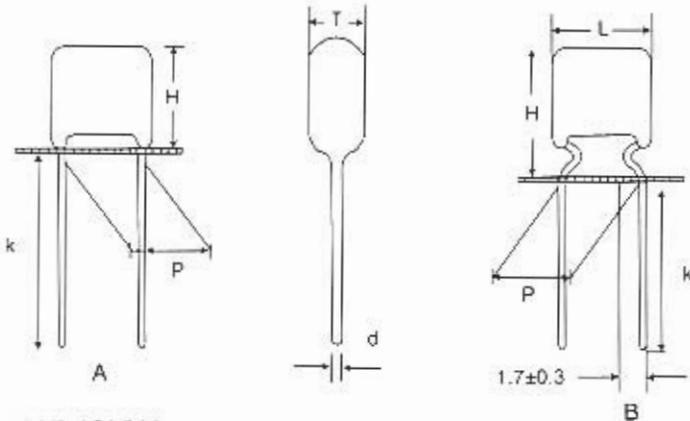
MES are constructed with metalized polyester film dielectric, copperplated lead and epoxy resin coating. They are suitable for blocking, coupling, decoupling, filtering, bypass timing circuit and ideal for use in telecommunication equipments, data processing equipments, industrial instruments, automatic control system and other general electronic equipments.

FEATURES:

- High moisture resistance.
- Good solderability.
- Non-inductive construction and self-healing property.

SPECIFICATION:

1. OPERATING TEMPERATURE: -40°C - 85°C.
2. CAPACITANCE RANGE: 0.01 $\mu$ F- 1.0  $\mu$ F.
3. CAPACITANCE TOLERANCE:  $\pm 5\%$ (J),  $\pm 10\%$ (K).
4. RATED VOLTAGE: 100VDC, 250VDC
5. DISSIPATION FACTOR: 1.0% MAX AT 1KHz, 25°C.
6. INSULATION RESISTANCE: >30,000 M $\Omega$   
( $C \leq 0.33 \mu$ F),  
>10,000 M $\Omega \cdot \mu$ F  
( $C > 0.33 \mu$ F)



Lead length (h)

- |           |               |               |
|-----------|---------------|---------------|
|           | A             | B             |
| • Short : | 4 + 1/-0.5 mm | 4 + 1/-0.5 mm |
| • Long :  | 22 $\pm$ 4 mm | 17 $\pm$ 4 mm |

DIMENSION:

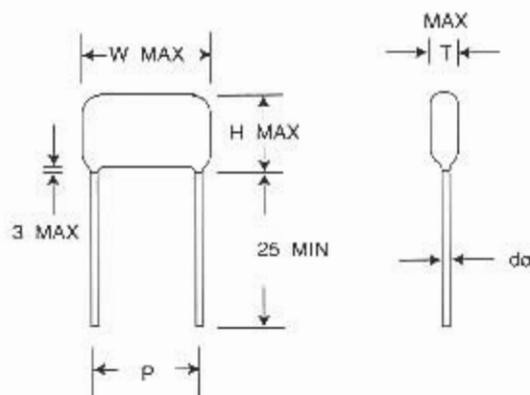
Unit: mm

RV CAP( $\mu$ F) SIZE	63V				100V				250V			
	W	H	T	P	W	H	T	P	W	H	T	P
.01					7.5	12.5	3.5	5.0				
.012					7.5	12.5	3.5	5.0				
.015					7.5	12.5	3.5	5.0				
.018					7.5	12.5	3.5	5.0	10.0	13.5	4.0	7.5
.022					7.5	12.5	3.5	5.0	10.0	13.5	4.0	7.5
.027					7.5	12.5	3.5	5.0	10.0	13.5	4.0	7.5
.033					7.5	12.5	3.5	5.0	10.0	13.5	4.0	7.5
.039					7.5	12.5	3.5	5.0	10.0	13.5	4.0	7.5
.047	7.5	12.5	3.5	5.0	7.5	12.5	3.5	5.0	10.0	13.5	4.0	7.5
.056	7.5	12.5	3.5	5.0	7.5	12.5	3.5	5.0				
.068	7.5	12.5	3.5	5.0	7.5	12.5	3.5	5.0				
.082	7.5	12.5	3.5	5.0	7.5	12.5	3.5	5.0				
.1	7.5	12.5	3.5	5.0	7.5	12.5	3.5	5.0				
.12	7.5	12.5	3.5	5.0	7.5	12.5	3.5	5.0				
.15	7.5	13.0	4.0	5.0	7.5	12.5	3.5	5.0				
.18	7.5	13.5	4.5	5.0	7.5	13.0	4.0	5.0				
.22	7.5	13.5	4.5	5.0	7.5	13.0	4.0	5.0				
.27	7.5	14.0	5.0	5.0								
.33	7.5	14.5	5.5	5.0								
.39	7.5	14.5	5.5	5.0								
.47	7.5	15.5	6.0	5.0								
.56	7.5	14.0	5.5	5.0								
.68	7.5	14.5	5.5	5.0								
.82	7.5	15.0	6.0	5.0								
1.0	7.5	15.5	6.5	5.0								

# METALLIZED POLYESTER FILM CAPACITOR

Type: MPE (Radial Dipped)

MPE are constructed with metalized polyester film dielectric, copperplated lead and epoxy resin coating. They are suitable for blocking, coupling, decoupling, filtering, bypass timing circuit and ideal for use in telecommunication equipments, data processing equipments, industrial instruments, automatic control system and other general electronic equipments.



## FEATURES:

- High moisture resistance.
- Good solderability.
- Non-inductive construction and self-healing property.

## SPECIFICATION:

1. OPERATING TEMPERATURE:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ .
2. CAPACITANCE RANGE:  $0.01\mu\text{F} \sim 10\mu\text{F}$ .
3. CAPACITANCE TOLERANCE:  $\pm 5\%$ (J),  $\pm 10\%$ (K),  $\pm 20\%$ (M).
4. RATED VOLTAGE: 100VDC, 250VDC, 400VDC, 630VDC.
5. DISSIPATION FACTOR: 1.0% MAX AT 1KHz,  $25^{\circ}\text{C}$ .
6. INSULATION RESISTANCE:  $>30,000\text{ M}\Omega$   
 $(C \leq 0.33\mu\text{F})$ ,  
 $>10,000\text{ M}\Omega \cdot \mu\text{F}$   
 $(C > 0.33\mu\text{F})$

## DIMENSION:

Unit: mm

RV CAP(μF) SIZE	50V/63V					100V					250V					400V					630V					
	W	H	T	P±1	do	W	H	T	P±1	do	W	H	T	P±1	do	W	H	T	P±1	do	W	H	T	P±1	do	
0.01	10.5	9.0	5.5	7.5	0.6	13.0	9.5	6.0	10.0	0.6	13.0	9.5	6.0	10.0	0.6	13.0	9.5	6.0	10.0	0.6	13.0	9.5	6.0	10.0	0.6	
0.012	10.5	9.5	6.0	7.5	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	
0.015	10.5	9.5	6.0	7.5	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	
0.018	10.5	9.5	6.0	7.5	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	12.5	7.5	10.0	0.6	
0.022	10.5	9.5	6.0	7.5	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	12.5	7.5	10.0	0.6	
0.027	10.5	9.5	6.0	7.5	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	12.5	7.5	10.0	0.6	
0.033	10.5	9.5	6.0	7.5	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	10.0	6.5	10.0	0.6	13.0	12.5	8.5	10.0	0.6	
0.039	10.5	9.5	6.0	7.5	0.6	13.0	11.0	7.5	10.0	0.6	13.0	11.0	7.5	10.0	0.6	13.0	11.0	7.5	10.0	0.6	18.5	12.5	7.5	15.0	0.6	
0.047	10.5	9.5	6.0	7.5	0.6	13.0	11.0	7.5	10.0	0.6	13.0	11.0	7.5	10.0	0.6	13.0	11.0	7.5	10.0	0.6	18.5	12.5	7.5	15.0	0.6	
0.056	10.5	9.5	6.0	7.5	0.6	13.5	10.0	7.0	10.0	0.6	13.5	10.0	7.0	10.0	0.6	18.0	11.0	6.0	15.0	0.6	19.0	14.0	8.5	15.0	0.8	
0.068	10.5	9.5	6.0	7.5	0.6	13.5	10.0	7.0	10.0	0.6	13.5	10.0	7.0	10.0	0.6	18.0	11.0	6.0	15.0	0.6	19.0	14.0	8.5	15.0	0.8	
0.082	10.5	9.5	6.0	7.5	0.6	13.5	10.0	6.0	10.0	0.6	13.5	10.0	6.5	10.0	0.6	18.0	12.5	7.0	15.0	0.6	19.0	15.0	9.0	15.0	0.8	
0.1	10.5	9.5	6.0	7.5	0.6	13.5	10.0	6.0	10.0	0.6	13.5	10.0	6.5	10.0	0.6	18.0	12.5	7.0	15.0	0.6	19.0	15.0	9.0	15.0	0.8	
0.12	10.5	10.5	7.0	7.5	0.6	13.5	10.5	6.5	10.0	0.6	13.5	10.5	6.5	10.0	0.6	18.5	13.0	7.5	15.0	0.8	24.0	15.5	9.5	20.0	0.8	
0.15	10.5	10.5	7.0	7.5	0.6	13.5	10.5	6.5	10.0	0.6	13.5	10.5	6.5	10.0	0.6	18.5	13.0	7.5	15.0	0.8	24.0	15.5	9.5	20.0	0.8	
0.18	10.5	10.5	7.0	7.5	0.6	13.5	10.5	6.5	10.0	0.6	18.5	11.5	7.0	15.0	0.6	18.5	13.0	8.0	15.0	0.8	24.0	18.5	10.5	20.0	0.8	
0.22	10.5	10.5	7.0	7.5	0.6	13.5	10.5	6.5	10.0	0.6	18.5	11.5	7.0	15.0	0.6	18.5	13.0	8.0	15.0	0.8	24.0	18.5	10.5	20.0	0.8	
0.27	10.5	11.0	8.0	7.5	0.6	13.5	11.5	8.0	10.0	0.6	18.5	13.0	8.0	15.0	0.6	24.0	16.0	9.0	20.0	0.8	24.0	21.5	13.0	20.0	0.8	
0.33	10.5	11.0	8.0	7.5	0.6	13.5	11.5	8.0	10.0	0.6	18.5	13.0	8.0	15.0	0.6	24.0	16.0	9.0	20.0	0.8	24.0	21.5	13.0	20.0	0.8	
0.39	10.5	11.5	8.0	7.5	0.6	18.0	11.5	6.5	15.0	0.8	18.5	14.0	8.0	15.0	0.8	24.0	18.0	10.0	20.0	0.8	30.5	21.0	11.5	27.5	0.8	
0.47	10.5	11.5	8.0	7.5	0.6	18.0	11.5	6.5	15.0	0.8	18.5	14.0	8.0	15.0	0.8	24.0	18.0	10.0	20.0	0.8	30.5	21.0	11.5	27.5	0.8	
0.56	13.0	11.5	7.0	10.0	0.6	18.5	12.5	7.5	15.0	0.8	24.0	14.0	9.0	20.0	0.8	30.5	17.5	10	27.5	0.8	35.0	23.0	13.0	31.0	0.8	
0.68	13.0	11.5	7.0	10.0	0.6	18.5	12.5	7.5	15.0	0.8	24.0	14.0	9.0	20.0	0.8	30.5	17.5	10	27.5	0.8	35.0	23.0	13.0	31.0	0.8	
0.82	13.0	12.5	7.0	10.0	0.6	18.5	15.0	8.0	15.0	0.8	24.0	17.0	9.5	20.0	0.8	31.0	21.0	11.5	27.5	0.8	35.0	28.0	16.0	31.0	0.8	
1.0	13.0	12.5	7.0	10.0	0.6	18.5	15.0	8.5	15.0	0.8	24.0	17.0	9.5	20.0	0.8	31.0	21.0	11.5	27.5	0.8	35.0	28.0	16.0	31.0	0.8	
1.2	18.5	14.0	8.0	15.0	0.8	24.0	16.0	9.0	20.0	0.8	24.0	19.5	10.0	20.0	0.8	31.5	24.0	14.0	27.5	0.8						
1.5	18.5	14.0	8.0	15.0	0.8	24.0	16.0	9.0	20.0	0.8	24.0	19.5	10.0	20.0	0.8	31.5	24.0	14.0	27.5	0.8						
1.8	18.5	15.0	10.0	15.0	0.8	24.0	17.0	9.0	20.0	0.8	30.0	19.0	10.0	27.5	0.8	35.0	24.5	15.0	31.0	0.8						
2.2	18.5	15.0	10.0	15.0	0.8	24.0	17.0	9.0	20.0	0.8	30.0	19.0	10.0	27.5	0.8	35.0	24.5	15.0	31.0	0.8						
2.7	24.0	19.5	11.5	20.0	0.8	24.0	19.5	11.0	20.0	0.8	30.5	22.5	12.5	27.5	0.8	35.0	30.0	18.0	31.0	0.8						
3.3	24.0	19.5	11.5	20.0	0.8	24.0	19.5	11.0	20.0	0.8	30.5	22.5	12.5	27.5	0.8	35.0	30.0	18.0	31.0	0.8						
3.9	31.0	22.0	12.0	27.5	0.8	31.0	22.0	12.0	27.5	0.8	34.0	23.0	13.0	31.0	0.8	41.0	31.0	19.0	36.0	0.8						
4.7	31.0	22.0	12.0	27.5	0.8	31.0	22.0	12.0	27.5	0.8	34.0	23.0	13.0	31.0	0.8	41.0	31.0	19.0	36.0	0.8						
6.8						31.0	25.0	15.0	27.5	0.8																
10						31.0	26.0	16.0	27.5	0.8																

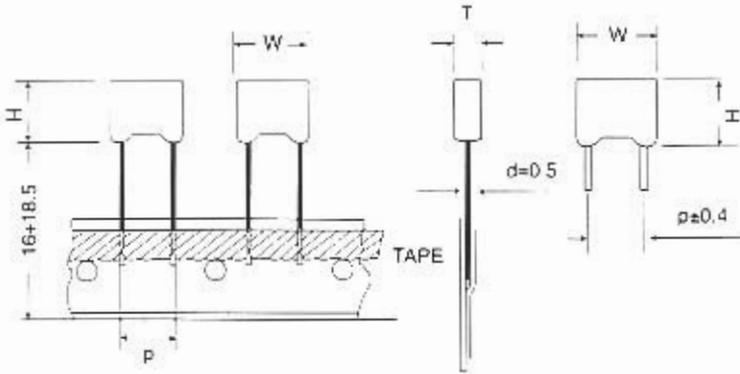
# MINIBOX METALLIZED POLYESTER FILM CAPACITOR WITH LEAD SPACING OF 5.0mm and 7.5mm

Type: MEM (Encapsulated)

**MEM** are self-healing flat style capacitor, which is wound with polyethyleneterephthalate film dielectric plastic case and epoxy resin end seal, oxygen free tinned copper wire radial leads. This type are miniature size, especially designed for automatic insertion.

**SPECIFICATION:**

1. OPERATING TEMPERATURE: -40°C ~ +85°C.
2. CAPACITANCE RANGE: 0.001 $\mu$ F~ 1.5  $\mu$ F.
3. CAPACITANCE TOLERANCE:  $\pm$ 5%(J),  $\pm$ 10%(K),  $\pm$ 20%(K)
4. RATED VOLTAGE: 63VDC, 100VDC, 50VDC, 63VAC.
5. DISSIPATION FACTOR:  $\leq$  0.8% at 1KHz and 20°C.
6. INSULATION RESISTANCE:  $\geq$  9000 M $\Omega$   
for C  $\leq$  0.33  $\mu$ F.  
 $\geq$  3,000 M $\Omega$   $\cdot$   $\mu$ F  
for C > 0.33  $\mu$ F.



**DIMENSION:**

Unit: mm

RV CAP(μF) SIZE	63VDC				100VDC			
	W	H	T	P	W	H	T	P
0.001	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0012	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0015	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0018	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0022	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0027	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0033	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0039	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0047	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0056	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0068	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.0082	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.01	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.012	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.015	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.018	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.022	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.027	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.033	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.039	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.047	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.056	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.068	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.082	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.1	7.6	6.5	2.5	5.0	7.6	6.5	2.5	5.0
0.12	7.6	6.5/8.0	2.5/3.2	5.0	7.6	6.5/8.0	2.5/3.2	5.0
0.15	7.6	6.5/8.0	2.5/3.2	5.0	7.6	6.5/8.0	2.5/3.2	5.0
0.18	7.6	6.5/8.0	2.5/3.2	5.0	7.6	8.0	5.0	5.0
0.22	7.6	6.5/8.0	2.5/3.2	5.0	7.6	8.0	5.0	5.0
0.27	7.6	8.0	3.2/5.0	5.0	7.6	8.0	5.0	5.0
0.33	7.6	8.0	3.2/5.0	5.0	7.6	8.0	5.0	5.0
0.39	7.6	8.0	5.0	5.0	7.6	8.0/12.0	5.0/6.0	5.0
0.47	7.6	8.0	5.0	5.0	7.6	9.6/12.0	6.0	5.0
0.56	7.6	8.0	5.0	5.0	7.6	9.6/12.0	6.0	5.0
0.68	7.6	8.0/9.6	5.0/6.0	5.0	7.6	9.6/12.0	6.0	5.0
0.82	7.6	8.0/9.6	5.0/6.0	5.0	7.6	12.0	6.0	5.0
1.0	7.6	8.0/9.6	5.0/6.0	5.0	7.6	12.0	6.0	5.0

# METALLIZED POLYPROPYLENE FILM CAPACITOR

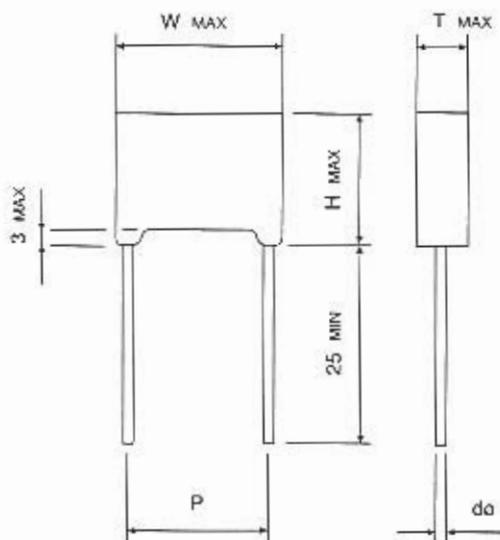
## Type: MPX Interference Suppressors Class — X2

MPX are constructed with special metallized polypropylene film dielectric, finned copper wire leads, encapsulated in plastic case with epoxy resin sealed, in non-inductive type.

They are ideal for line-by-pass, across-the-line, antenna coupling, spark killer circuits, switching power supply and available for EMI filter application.

### FEATURES:

- 10mm to 27.5mm lead pitch.
- Self-healing property.
- High moisture resistance.
- Overvoltage stress withstanding.
- UL/CSA and European safety regulations class X2. (meeting EN132400 1994/IEC384-14 2nd 1993)
- Flame retardant plastic case and epoxy resin (UL-class 94V-0)



### SPECIFICATION:

1. OPERATING TEMPERATURE : -40°C ~ +85°C
2. CAPACITANCE RANGE : 0.01  $\mu$ F ~ 10  $\mu$ F.
3. CAPACITANCE TOLERANCE : K= $\pm$ 10%, M= $\pm$ 20%.
4. RATED VOLTAGE (RV) : 275VAC 50Hz~50Hz.
5. DISSIPATION FACTOR (DF) : 0.1% max. (at 1KHz 25°C)
6. TESTING VOLTAGE (TV) : 1185vdc 60sec or 2000vdc 1sec.
7. INSULATION RESISTANCE (IR) :  $C \leq 33\mu$ F, IR $\geq$ 35000m $\Omega$  (measured at 100 $\pm$ 15vdc 60sec at 25°C)

$C \geq 33\mu$ F, IR $\geq$ 1000M $\Omega$ , $\mu$ F



Capacitance $\mu$ F	Rated-Voltage VAC	Dimensions in mm						BOX
		W	H	T	P	da		
0.01	275	13.0	11.0	5.0	10	0.6	C2	
0.012	275	13.0	11.0	5.0	10	0.6	C2	
0.015	275	13.0	11.0	5.0	10	0.6	C2	
0.022	275	18.0	11.0	5.0	15	0.6	D1	
0.027	275	18.0	11.0	5.0	15	0.6	D1	
0.033	275	18.0	11.0	5.0	15	0.8	D1	
0.039	275	18.0	11.0	5.0	15	0.8	D1	
0.047	275	18.0	11.0	5.0	15	0.8	D1	
0.056	275	18.0	12.0	6.0	15	0.8	D2	
0.068	275	18.0	12.0	6.0	15	0.8	D2	
0.082	275	18.0	12.0	6.0	15	0.8	D2	
0.1	275	18.0	13.5	6.0	15	0.8	D2-A	
0.12	275	18.0	13.5	7.5	15	0.8	D3	
0.15	275	18.0	14.5	8.5	15	0.8	D4	
0.15	275	26.5	16.5	7.0	22.5	0.8	E1	
0.22	275	18	16	10	15	0.8		
0.22	275	26.5	16.5	7.0	22.5	0.8	E1	
0.27	275	26.5	17.5	8.5	22.5	0.8	E3	
0.33	275	18	16.0	10	15	0.8		
0.33	275	26.5	17.5	8.5	22.5	0.8	E3	
0.39	275	26.5	19.0	10.0	22.5	0.8	E4	
0.47	275	17	19.0	11.0	15.0	0.8		
0.47	275	26.5	19.0	10.0	22.5	0.8	E4	
0.47	275	32.5	20.0	11.0	27.5	0.8	F1	
0.56	275	32.0	20.0	11.0	27.5	0.8	F1	
0.68	275	32.0	20.0	11.0	27.5	0.8	F1	
0.82	275	32.0	22.0	13.0	27.5	0.8	F2	
1.0	275	32.0	22.0	13.0	27.5	0.8	F2	
1.5	275	32.0	30.0	15.0	27.5	0.8	G1	
2.0	275	32.0	33.0	18.0	27.5	0.8	G2	
2.2	275	32.0	33.0	18.0	27.5	0.8	G2	
2.2	275	42.0	32.0	18.0	37.5	0.8	H1	



# HI-VOLTAGE METALLIZED POLYPROPYLENE FILM CAPACITOR

## Type: PSM (Radial Dipped) High Voltage; Very Miniature Size

PSM are constructed with special series metallized polypropylene film dielectric, finned copper wire leads and flams retardant epoxy resin coating, in non-inductive type.

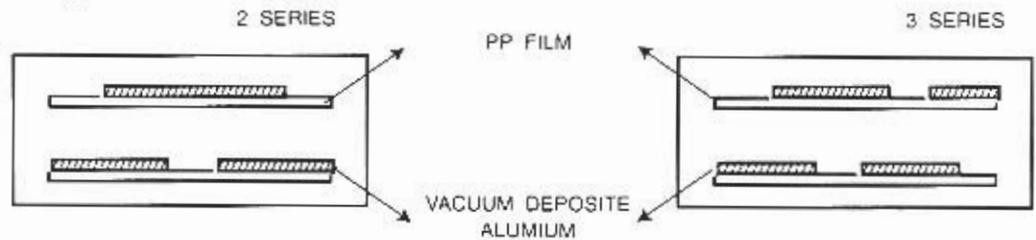
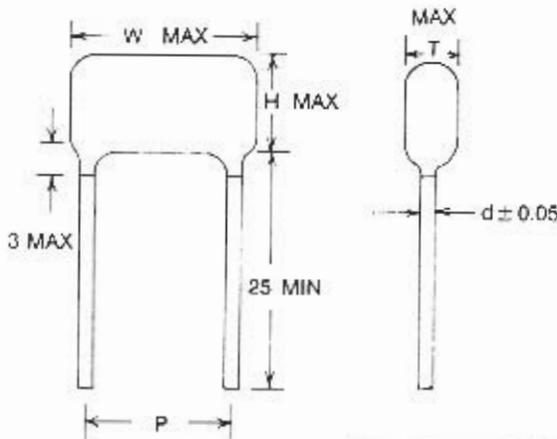
They are ideal for high frequency and high pulse circuits, such as TV or computer monitor horizontal resonance circuits, electric ballast, switching power supplies, etc.

### FEATURES:

- Self-healing property.
- High corona starting voltage (csv).
- Low DF and inherent temperature rise.
- High current rating and high dv/dt.
- High reliability and excellent long term stability.
- Flame retardant epoxy resin coating (UL-class 94V-0).

### SPECIFICATION:

1. Operating temperature : -40°C ~ +85°C
2. Capacitance range : .001 μF ~.068 μF.
3. Capacitance tolerance : J=±5%, K=±10%, M=±20%.
4. Rated voltage (RV) : 1000, 1600, 2000VDC.
5. Dissipation factor (DF) : 0.1% max at 1KHz 25°C.
6. Testing voltage (TV) : 160% of RV for 60 sec.
7. Insulation resistance (IR) : IR≥50000mΩ (at 25°C) (measured at 100Vdc 1 minute)



### DIMENSION:

Unit: mm

RV size cap.	1000VDC					1600VDC					2000VDC				
	W max.	H max.	T max.	P	d o	W max.	H max.	T max.	P	d o	W max.	H max.	T max.	P	d o
.0010	18.5	11.0	7.5	15.0±1.0	0.8	18.5	11.0	7.5	15.0±1.0	0.8	18.5	13.0	8.0	15.0±1.0	0.8
.0012	18.5	11.5	8.0	15.0±1.0	0.8	18.5	11.5	8.0	15.0±1.0	0.8	18.5	13.5	8.5	15.0±1.0	0.8
.0015	18.5	13.0	8.0	15.0±1.0	0.8	18.5	13.0	8.0	15.0±1.0	0.8	18.5	14.5	9.0	15.0±1.0	0.8
.0018	18.5	13.5	8.0	15.0±1.0	0.8	18.5	13.5	8.0	15.0±1.0	0.8	18.5	15.0	9.5	15.0±1.0	0.8
.0022	18.5	10.0	6.5	15.0±1.0	0.8	18.5	14.0	9.0	15.0±1.0	0.8	22.0	14.5	9.5	17.5±1.0	0.8
.0027	18.5	10.5	7.0	15.0±1.0	0.8	18.5	16.0	9.0	15.0±1.0	0.8	22.0	15.0	10.0	17.5±1.0	0.8
.0033	18.5	11.0	7.5	15.0±1.0	0.8	22.0	14.0	9.0	17.5±1.0	0.8	22.0	17.5	10.5	17.5±1.0	0.8
.0039	18.5	11.5	8.0	15.0±1.0	0.8	22.0	14.5	9.5	17.5±1.0	0.8	22.0	17.5	11.0	17.5±1.0	0.8
.0047	18.5	12.0	8.0	15.0±1.0	0.8	22.0	15.0	10.0	17.5±1.0	0.8	22.0	18.5	12.0	17.5±1.0	0.8
.0056	18.5	13.0	8.0	15.0±1.0	0.8	22.0	16.0	10.5	17.5±1.0	0.8	22.0	19.5	12.5	17.5±1.0	0.8
.0068	18.5	14.0	9.0	15.0±1.0	0.8	22.0	17.5	11.0	17.5±1.0	0.8	23.5	19.0	11.5	20.0±1.0	0.8
.0082	18.5	15.0	9.5	15.0±1.0	0.8	22.0	18.5	12.0	17.5±1.0	0.8	23.5	19.5	13.0	20.0±1.0	0.8
.010	18.5	15.0	10.0	15.0±1.0	0.8	23.5	17.5	12.5	20.0±1.0	0.8	23.5	22.0	13.0	20.0±1.0	0.8
.012	18.5	16.0	11.0	17.5±1.0	0.8	23.5	18.0	13.0	20.0±1.0	0.8	23.5	23.0	14.0	20.0±1.0	0.8
.015	22.0	15.5	10.5	17.5±1.0	0.8	23.5	20.5	14.0	20.0±1.0	0.8	26.5	23.0	14.5	22.5±1.0	0.8
.016	22.0	17.0	11.0	17.5±1.0	0.8	23.5	22.5	15.0	20.0±1.0	0.8	26.5	24.0	16.0	22.5±1.0	0.8
.022	22.0	18.0	11.5	20.0±1.0	0.8	26.5	22.5	15.0	22.5±1.0	0.8	26.5	25.5	17.5	22.5±1.0	0.8
.027	23.5	18.0	11.0	20.0±1.0	0.8	26.5	24.5	15.5	22.5±1.0	0.8					
.033	23.5	19.0	12.0	20.0±1.0	0.8	26.5	27.0	16.5	22.5±1.0	0.8					
.039	23.5	20.0	12.0	20.0±1.0	0.8										
.047	23.5	21.5	13.0	20.0±1.0	0.8										
.056	26.5	22.0	13.0	22.5±1.0	0.8										
.068	26.5	22.5	14.0	22.5±1.0	0.8										

Please contact us for special case size or items not listed



# 金屬化聚丙烯膜電容器

## METALLIZED POLYPROPYLENE FILM CAPACITOR

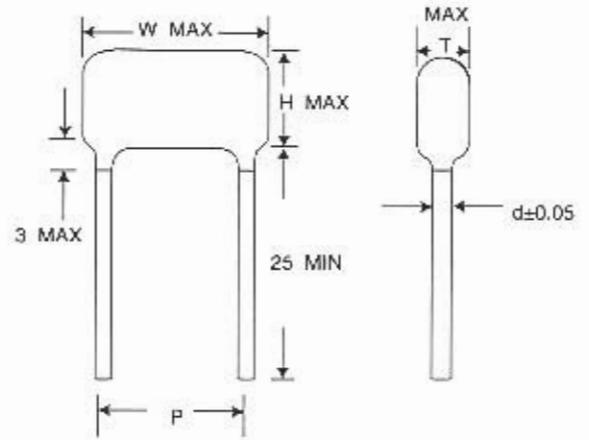
Type: MPS (Radial Dipped) — 250VDC, 400VDC

### FEATURES:

- Self-healing properties.
- Special for S-shaping correction circuit in TV sets and monitors.
- Low dissipation factor and high insulation resistance.
- Sunlabc for high current and high frequency.
- Flame retardant epoxy resin coating.
- Compliance with (UL94V-0)

### SPECIFICATION:

1. Operating temperature : -40°C ~ +85°C
2. Rated voltage : 250VDC, 400VDC.
3. Capacitance range : 0.10, 1.5  $\mu\text{F}$
4. Capacitance tolerance :  $\pm 5\%$ (J),  $\pm 10\%$ (K),  $\pm 20\%$ (M).
5. Insulation resistance : 50000M $\Omega$  ( $C \leq 0.33\mu\text{F}$ )  
>10000M $\Omega$ ,  $\mu\text{F}$  ( $C > 0.33\mu\text{F}$ )
6. Dissipation factor :  $\leq 0.1$  (at 1KHz). 0.2% max at 10KHz, 20°C



W	13.0	18.5	26.0	32.0
P	10.0	15.0	22.5	27.5
d $\phi$	0.8	0.8	0.8	0.8

### DIMENSIONS:

(UNIT: m/m)

CAP( $\mu\text{F}$ )	RV SIZE	250VDC			400VDC		
		W	H	T	W	H	T
0.10		13	13	8.5	18.5	14	8.5
0.11		18.5	11	7	18.5	14	9.0
0.12		18.5	11	7	18.5	15	9.5
0.13		18.5	11.5	7	18.5	15	9.5
0.15		18.5	12.0	7	18.5	16	10
0.16		18.5	12.5	7.5	18.5	16	10
0.18		18.5	13.0	7.5	26.0	15	9
0.20		18.5	13.0	8.0	26.0	15.5	9.5
0.22		18.5	13.5	8.0	26.0	16	9.5
0.24		18.5	14.0	8.5	26.0	16.5	10
0.27		18.5	14.5	9.0	26.0	17	10.5
0.3		18.5	16.0	9.5	26.0	17.5	11
0.33		18.5	16.5	9.5	26.0	18	11.5
0.36		18.5	17.5	10	26.0	18.5	12
0.39		26.0	15	8.5	26.0	19	12.5
0.43		26.0	15.5	9	32	18.5	11.0
0.47		26.0	16	9.5	32	19	11.5
0.51		26.0	16.5	10	32	19	12
0.56		26.0	17	10.5	32	19.5	13
0.62		26.0	17.5	10.5	32	20	13.5
0.68		26.0	18.0	11.0	32	20.5	13.5
0.75		26.0	18.5	11.0	32	21.5	14.0
0.82		26.0	19	11.5	32	22.5	14.5
0.91		26.0	19.5	11.5	32	23.0	15.0
1.0		26.0	21.0	12	32	24.0	15.0
1.1		32	19.5	12			
1.2		32	20.5	12			
1.3		32	22	12.5			
1.5		32	23	13.0			