



# ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.

Manufacturers of PLASTIC FILM CAPACITORS

An ISO 9001:2015 & ISO 13485:2016 Company

## CATALOGUES 2021



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AND INSTRUMENTS PVT. LTD.**  
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GENERAL FILM CAPACITORS

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## Advance 250/275Vac 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

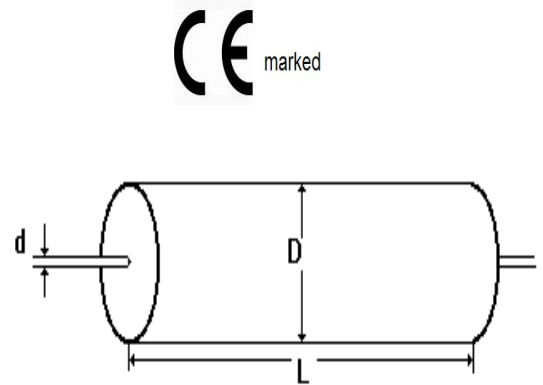
### **ELECTRICAL CHARACTERISTICS**

Rated Voltage : 250/275Vac; 50Hz  
Capacitance Range : 0.01 $\mu$ 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)

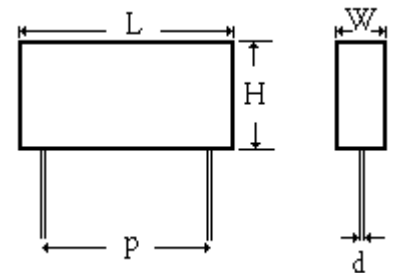
## EMI SUPPRESSION CLASS X2

### Dimensions:

Type	Capacitance in $\mu\text{F}$	D in mm	L in mm	d in mm
MKP-5 X2 Axial	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	P mm	d mm
MKP-4 X2 Radial	0.01	5	13	10.5	10.2	0.6
	0.047	6	18	12	15.2	0.6
	0.068	6	18	12	15.2	0.6
	0.1	7.5	18	13.5	15.2	0.6
	0.15	8.5	26.5	17	22.5	0.8
	0.22	10	26	18.5	22.5	0.8
	0.33	11	32	21	27.5	0.8
	0.47	11	32	21	27.5	0.8
	1	15	32.5	24	29	0.8



# 250/275/305 Vac EMI Supression Capacitors- Y2 type

**GENERAL :**

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



Class Y2 capacitors are used for Interference Suppression and across-the-line and line to ground applications. Suitable for use in situations where failure of the capacitor could lead to danger of electric shock.

**APPLICATIONS :**

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

**STYLES :** MKP-4S / Y2 : Radial Lead

**STANDARDS :** IEC- 384-14

**GENERAL TECHNICAL DATA**

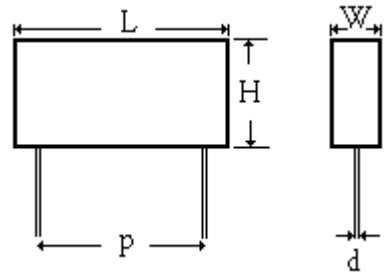
- Dielectric : Metallised Polypropylene Film
- Winding : Non-Inductive type
- Leads : Tinned wire
- Climatic Category : 40/85/21
- Marking : Manufacturer's name, capacitance, tolerance, rated voltage, style code, manufacturing date code and batch no.
- Temperature Range : -40°C to +85 °C

**ELECTRICAL CHARACTERISTICS**

- Rated Voltage : 250/275/305Vac; 50Hz
- Capacitance Range : 0.0022 µF to 0.01 µF
- Tolerance : ± 5%, ±10%, ± 20%
- Tan Delta (C < 1uF) : 0.001 at 1 KHz
- Insulation Resistance at 100Vdc : 5,000 Mohm x µF, 15,000 Mohm max
- Test Voltage : 3 KV dc
- Pulse Rise Time : 40 to 100 V/ µS

**Dimensions:**

Type	Capacitance in µF	W mm	L mm	H Mm	P mm	d mm
MKP-4S	0.0022	5.5	18.0	11.0	15.2	0.6
Y2	0.0033	6.0	18.0	12.0	15.2	0.6
<b>Radial</b>	0.0047	7.0	18.0	13.1	15.2	0.6
	0.0068	9.0	18.0	14.5	15.2	0.8
	0.01	9.0	18.0	14.5	15.2	0.8



## **Advance EMI Supression Capacitors- 440Vac 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

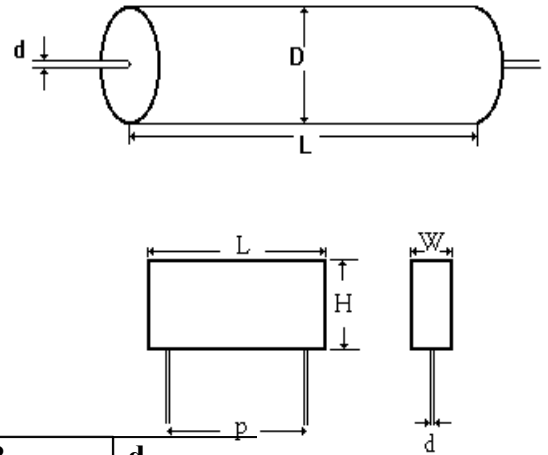
### **ELECTRICAL CHARACTERISTICS**

Rated Voltage : 415/440Vac; 50Hz  
Capacitance Range : 0.022 $\mu$ F to 1.0 $\mu$ 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 M $\Omega$ \*  $\mu$ F  
  15000M $\Omega$  max.  
DC Test Voltage X2 : 4.3 times rated ac voltage  
Pulse Rise Time : 40 to 100 V/ $\mu$ S  
Impulse Voltage X2 :  $\leq 2.5$  kV, as per IEC 384-14  
(for rated voltage  $\geq 250$ Vac)

## INTERFERENCE SUPPRESSION CLASS X2 - 440Vac

### Dimensions:

Type	Capacitance in $\mu\text{F}$	D	L	d
MKP-5 X2 Axial	0.1	10.5	27	0.8
	0.15	11	27	0.8
	0.22	11	32	0.8
	0.33	13	32	0.8
	0.47	14.5	32	0.8
	0.68	16	32	0.8
	1.00	16	45	0.8



Type	Capacitance in $\mu\text{F}$	W	L	H	P	d
MKP-4 X2 Radial	0.022	7.5	18.5	13.5	15.2	0.6
	0.1	8.0	18.0	15.0	15.2	0.8
	0.15	8.5	26.5	17.0	22.5	0.8
	0.22	10.0	26.5	18.5	22.5	0.8
	0.33	11.0	32.0	20.0	27.5	0.8
	0.47	15.5	32.0	24.5	27.5	0.8
	0.68	15.5	32.0	24.5	27.5	0.8
	1.00	14.0	44.0	24.0	40.0	0.8

**Note: Other capacitance values available on request**

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## **ADVANCE Metallised Polypropylene Axial/Radial Capacitors**

### **GENERAL :**

- Non Polar
- Low Losses
- Low ESR
- Self Healing
- ◆ High Insulation Resistance
- ◆ Good High Frequency Stability
- ◆ High Stability
- ◆ Negative ppm
- ◆ Non Inductive

### **APPLICATIONS :**

- ◆ Requiring Precision Capacitors
- ◆ Measuring Instruments
- ◆ Telephone Systems
- ◆ High Frequency Applications
- ◆ Timing Circuits
- ◆ L-C Filters
- ◆ Sample & Hold Circuits

### **STYLE :**

Type : MKP-5 : Cylindrical, Tape wrap, Axial Lead MKP-4 – Radial Box type

**STANDARDS :** IEC-384-16

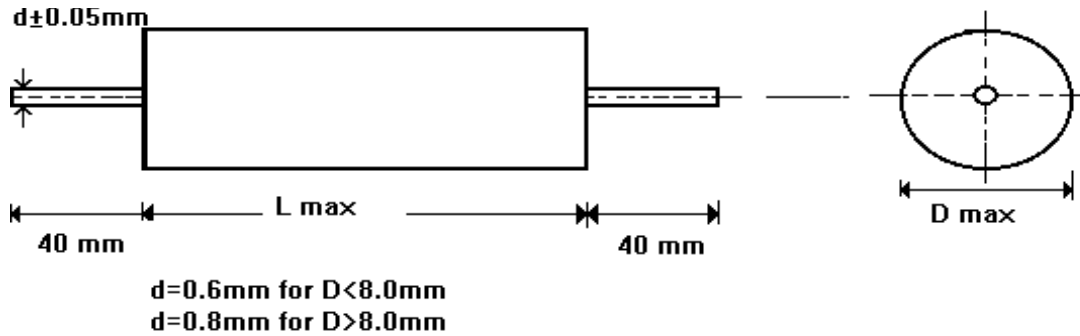
### **SPECIFICATIONS :**

Temperature Range : -55 °C to +100 °C  
Tan Delta (C < 1uf) : 0.0005 at 1 KHz  
Insulation Resistance : 30,000 MΩ\*μF  
at 100 V DC 60,000 MΩ max.  
Test Voltage : 1.6 times rated DC Voltage  
Climatic Category : 55/100/56  
Voltage Derating : 1.5% per C above 85°C  
Tolerance : ±1%, ±2%, ±5%, ±10%  
Pulse Rise Time : 5 to 25 V/microsecond  
Stability : < 0.5% over 2 Years

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## METALLISED POLYPROPYLENE CAPACITORS – TYPE :MKP-5



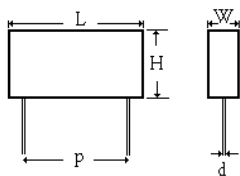
DIMENSIONS : ( in mm)

CAP μF	63 / 100 / 160 / 250 VDC		400VDC		630 VDC		1000 VDC	
	D	L	D	L	D	L	D	L
0.00047							6.0	11.5
0.00082							6.0	11.5
0.0010							6.0	11.5
0.0022							6.0	11.5
0.0033							6.0	11.5
0.0047							6.0	11.5
0.0068							6.0	11.5
0.0100			6.0	11.5	6.0	11.5	6.0	20.5
0.0150			6.0	11.5	6.0	11.5	6.5	20.5
0.0220			6.0	11.5	7.0	11.5	7.0	20.5
0.0330			6.5	16.5	9.0	16.5	8.5	20.5
0.0470	6.0	11.5	7.5	16.5	7.0	20.5	10.0	20.5
0.0680	6.5	11.5	8.5	16.5	8.0	20.5	10.0	28.5
0.1000	7.5	11.5	8.0	20.5	9.5	20.5	11.0	28.5
0.1500	7.5	20.5	9.5	20.5	11.0	20.5	13.0	28.5
0.2200	8.5	20.5	11.0	20.5	11.0	28.5	14.0	34.0
0.3300	10.5	20.5	11.0	28.5	12.5	28.5	18.0	34.0
0.4700	12.0	20.5	12.0	28.5	13.0	34.0		
0.6800	13.0	20.5	13.0	34.0	16.0	34.0		
1.0000	15.0	20.5	15.5	34.0	19.0	34.0		
1.5000	12.0	34.0	16.0	45.0	20.0	45.0		
2.2000	14.0	34.0	20.0	45.0	24.0	45.0		
3.3000	16.5	34.0	24.0	45.0	28.0	45.0		
4.7000	20.0	34.0	27.0	45.0	34.0	45.0		
10.000	28.0	34.0						

Note: Other values available on request  
 Close Tolerance (1%) sizes will be quoted on request

## METALLISED POLYPROPYLENE CAPACITORS – TYPE:MKP-4

Type MKP-4 Rectangular, Plastic Case/Epoxy Fill, Radial lead



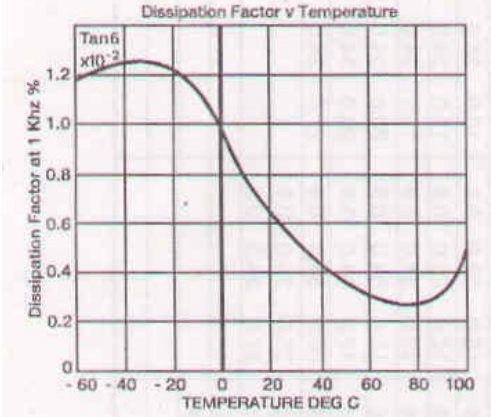
These capacitors are rectangular in shape and are provided with radial leads for easy PCB mounting and a high packaging density. These are encased in flame retardant Nylon or PBT cases and completely potted in epoxy to provide superior moisture, shock and vibration protection.

### Dimensions (Max) in mm

Case Size	W	L	H	p	d	Case Size	W	L	H	p	d
A1	4.0	10.5	9.0	7.5	0.6	C7	8.0	18.0	15.0	15.2	0.8
A2	5.0	10.5	11.0	7.5	0.6	D2	8.5	26.5	17.0	22.5	0.8
A3	6.0	10.5	12.0	7.5	0.6	D3	10.0	26.5	18.5	22.5	0.8
B1	4.0	13.0	9.0	10.2	0.6	E1	11.0	32.0	20.0	27.5	0.8
B2	5.0	13.0	11.0	10.2	0.6	E2	15.5	32.0	24.5	27.5	0.8
B3	6.0	13.0	12.0	10.2	0.6	F1	17.0	41.5	29.0	37.5	0.8
B4	6.8	13.0	13.0	10.2	0.6	F2	14.0	44.0	24.0	37.5	0.8
C1	5.0	18.0	11.0	15.2	0.6	I1	19.0	43.5	36.0	40.0	0.8
C2	5.5	18.0	11.0	15.2	0.6	I2	24.0	48.0	38.0	40.0	0.8
C3	6.0	18.0	12.0	15.2	0.6	I3	30.0	44.0	44.0	40.0	0.8
C5	7.0	18.0	14.0	15.2	0.6	I4	43.0	54.0	50.0	40.0	0.8
C6	7.5	18.5	13.5	15.2	0.6						

Voltage	63V	100V	160V	250V	400V	630V	1000V
Value	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size
0.0010	A1/B1	A1/B1	A1/B1	A1/B1	A1/B1	A1/B1	A1/B1
0.0022	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2
0.0033	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2
0.0047	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2	A3/B3
0.0068	A3/B3	A3/B3	A3/B3	A3/B3	A3/B3	A3/B3	A3/B3
0.0100	A2/B2	A2/B2	A2/B2	A2/B2	A2/B2	C1	C3
0.0150	A3/B3	A3/B3	A3/B3	A3/B3	A3/B3	C3	C3
0.0220	A3/B3	A3/B3	A3/B3	A3/B3	A3/B3	C3	C5
0.0330	A3	A3	A3	A3	A3	C5	C6
0.0470	A3	A3	A3	A3	C1	C5	D2
0.0680	A3	A3	A3	A3	C3	C6	D2
0.1	C5	C5	C5	C5	C5	C7	D3
0.1500	C5	C5	C5	C5	C6	D2	D3
0.2200	C5	C5	C5	C5	C7	D3	E1
0.33	C6	C6	C6	C6	D3	D3	E1
0.47	E1	E1	E1	E1	D3	D3	E2
0.68	E1	E1	E1	E1	I1	I1	E2
1	E1	E1	E1	E1	F1	F1	-
1.5	E1	E1	E1	E1	F1	F1	-
2.2	E2	E2	E2	E2	F1	I1	-
3.3	E2	E2	E2	E2	I1	I2	-
4.7	I1	I1	I1	I1	I2	I3	-
6.8	I2	I2	I2	I2	I3	I4	-
10	I3	I3	I3	I3	I4	-	-
15	I3	I3	I3	I3	I4	-	-
22	I4	I4	I4	I4	-	-	-

# **Advance Metallised Polyester Capacitors**



**GENERAL :**

- Non-Polar            Epoxy Resin Sealed
- Non-Inductive      Humidity, Shock, Vibration Proof
- Self-Healing        Tin-Electroplated Lead
- Higher Capacitance/ Voltage on request**

**APPLICATIONS:**

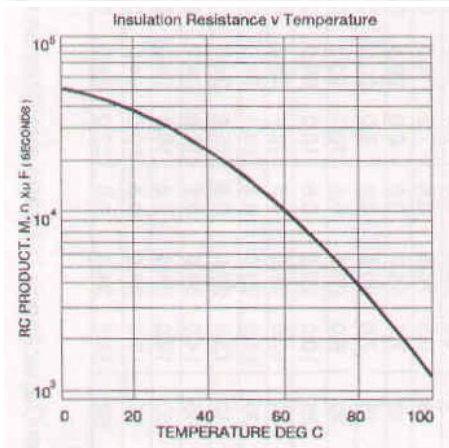
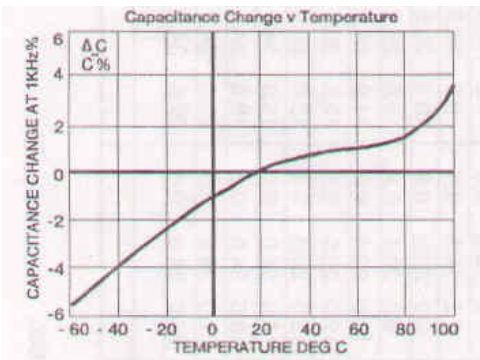
- Instrumentation
- Communications
- R-C Circuits
- Input to High Impedance Circuits
- Replacement for Paper Capacitors
- Meter Damping
- Filter, Bypass
- Computers, Switching

**STYLES :**

- Type- MWF - Cylindrical, Tape Wrap, Epoxy End Fill, Axial Lead
- Type – MF - Rectangular, Plastic Case, Epoxy Fill, Radial Lead
- Type- MMWF -Miniature Cylindrical, Tape Wrap, Epoxy End Fill, Axial Lead
- Type –MMF – Miniature Rectangular, Plastic Case, Epoxy Fill, Radial Lead
- Type – MWOE - Oval Shape, Tape Wrap, Axial Lead
- Type- MMMF – Miniature Rectangular, Radial lead, 5mm pitch

**STANDARDS:**

- 27287    BS 2011    IEC 384-2            JSS 50204    MIL-C-    IS 9256



**SPECIFICATIONS:**

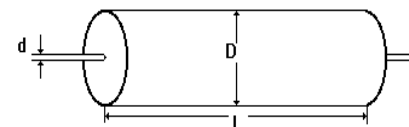
- All measurements are made at 20°C
- Capacitance and Tan Delta are measured at 1kHz.
- Temperature Range        : -55°C + 125°C
- Power Factor (Tan delta)    : ≤ 0.008 (Typical 0.006)
- Insulation Resistance: Capacitance ≤0.33μF > 30000 MΩ\*μF
- Capacitance > 0.33μF > 10000 MΩ\*μF second
- Test Voltage                     : 1.6 x rated dc voltage
- Climatic Category             : 55/125/56
- Voltage derating              : 1.5% per °C for use above 85 °C
- Soldering                        : 5 Seconds at 250 °C
- Tolerance                        : ±20%, ±10%, ±5%

## METALLISED POLYESTER CAPACITORS - JSS 50204 CPM 07

**Type MWF :** Cylindrical Wrap / Epoxy Fill, Axial Lead

These capacitors are cylindrical and are provided with yellow thermosetting tape outer wrap.

The ends are sealed with epoxy resin. These capacitors conform to JSS 50204 CPM 07



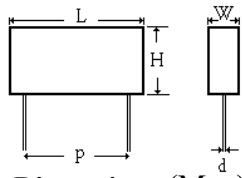
**Dimensions (Max) in mm**

Voltage	WD / 63 VDC			WH / 100 VDC			WR / 160 VDC			WG / 250 VDC			WW/ 400 VDC			WK / 630 VDC			WX / 1000 VDC	
	D	L	d	D	L	d	D	L	d	D	L	d	D	L	d	D	L	d	D	L
0.0100	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	9.0	20.5
0.0150	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	10.0	20.5
0.0220	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	16.5	0.6	10.0	20.5
0.0330	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	8.0	20.5	0.6	12.0	20.5
0.0470	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	16.5	0.6	8.0	20.5	0.6	12.0	20.5
0.0680	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	20.5	0.6	12.0	20.5	0.8	12.0	29.0
0.1000	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	8.0	20.5	0.6	9.5	20.5	0.8	13.0	29.0
0.1500	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	16.5	0.6	9.0	20.5	0.8	10.0	29.0	0.8	16.0	34.0
0.2200	6.5	16.5	0.6	7.5	16.5	0.6	7.5	16.5	0.6	7.5	16.5	0.6	9.0	29.0	0.8	12.0	29.0	0.8	18.0	34.0
0.3300	6.5	16.5	0.6	7.5	16.5	0.6	7.5	16.5	0.6	9.0	20.5	0.8	10.0	29.0	0.8	13.0	34.0	0.8	19.0	34.0
0.4700	7.5	16.5	0.6	8.0	20.5	0.6	8.0	20.5	0.6	10.0	20.5	0.8	12.0	29.0	0.8	15.0	34.0	0.8	20.0	34.0
0.6800	7.0	20.5	0.6	9.0	20.5	0.8	9.0	20.5	0.8	9.0	29.0	0.8	13.0	34.0	0.8	17.0	34.0	0.8	21.0	34.0
1.0000	8.0	20.5	0.6	10.0	20.5	0.8	10.0	20.5	0.8	11.0	29.0	0.8	15.0	34.0	0.8	20.0	34.0	0.8	18.0	45.0
1.5000	10.0	20.5	0.8	10.0	29.0	0.8	12.0	29.0	0.8	12.0	29.0	0.8	17.0	34.0	0.8	23.0	34.0	0.8	23.0	45.0
2.2000	10.0	20.5	0.8	12.0	29.0	0.8	13.0	29.0	0.8	13.0	34.0	0.8	20.0	34.0	0.8	27.0	34.0	0.8		
3.3000	11.0	29.0	0.8	13.0	29.0	0.8	16.0	34.0	0.8	16.0	34.0	0.8	23.0	34.0	0.8					
4.7000	13.0	29.0	0.8	15.0	34.0	0.8	18.0	34.0	0.8	18.0	34.0	0.8	27.0	34.0	0.8					
6.8000	14.0	34.0	0.8	17.0	34.0	0.8	21.0	34.0	0.8	21.0	34.0	0.8								
10.000	16.0	34.0	0.8	18.0	34.0	0.8	22.0	34.0	0.8	22.0	34.0	0.8								
15.000	17.0	34.0	0.8	19.0	34.0	0.8														
22.000	19.0	34.0	0.8	22.0	34.0	0.8														

Note: Higher Capacitance / Voltage available on request

## METALLISED POLYESTER CAPACITORS – JSS 50204 CPM 08

**Type MF** : Rectangular, Plastic Case/Epoxy Fill, Radial lead



These capacitors are rectangular in shape and are provided with radial leads for easy PCB mounting and a high packaging density. These are encased in flame retardant Nylon or PBT cases and completely potted in epoxy to provide superior moisture, shock and vibration protection.

**Dimensions (Max) in mm**

Voltage	63V					100V					160V					250V				
Val	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d
0.0010	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0015	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0022	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0033	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0047	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0068	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0100	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0150	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0220	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0330	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0470	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0680	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.1000	4	10.5	9	7.5	0.6	2.3	6.12	7	5.0	0.5	5	10.5	11	7.5	0.6	6	10.5	12	7.5	0.6
	4	13	9	10.2	0.6	4	10.5	9	7.5	0.6	4	13	9	10.2	0.6	5	10.5	11	10.2	0.6
						4	13	9	10.2	0.6										
0.1500	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6	5.5	18	11	15.2	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.2200	2.3	6.12	7	5.0	0.5	5	10.5	11	7.5	0.6	5	10.5	11	7.5	0.6	5.5	18	11	15.2	0.6
	5	10.5	11	7.5	0.6	5	10.5	11	10.2	0.6	5	10.5	11	10.2	0.6					
	5	10.5	11	10.2	0.6															
0.3300	6	10.5	12	7.5	0.6	6	10.5	12	7.5	0.6	6	18	12	15.2	0.6	6	18	12	15.2	0.6
	5	10.5	11	10.2	0.6	5.5	18	11	15.2	0.6										
0.4700	2.3	6.12	7	5.0	0.5	5	7	10	5.0	0.6	7	18	14	15.2	0.6	8	18	15	15.2	0.8
	6	10.5	12	7.5	0.6	6	10.5	12	7.5	0.6										
	6	13	12	10.2	0.6	5.5	18	11	15.2	0.6										
0.6800	6	10.5	12	7.5	0.6	6	7.2	10	5.0	0.6	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8
	6.8	13	12	10.2	0.6	7	18	14	15.2	0.6										
1.0000	6	18	12	15.2	0.6	7	18	14	15.2	0.6	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8
1.5000	7	18	14	15.2	0.6	8.5	26.5	18.5	22.5	0.8	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
2.2000	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8	10	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
3.3000	8.5	26.5	18.5	22.5	0.8	10	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8
4.7000	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8	11	32	20	27.5	0.8					
6.8000	10	26.5	18.5	22.5	0.8	15.5	32	24.5	27.5	0.8	15.5	32	24.5	27.5	0.8					
10.000	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8										

Voltage	400V					630V					1000V				
Value	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d
0.0010	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0015	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0022	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0033	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0047	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0068	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0100	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5.5	18.0	11	15.2	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6					
0.0150	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6	5.5	18.0	11	15.2	0.6
	4	13	9	10.2	0.6	5	10.5	11	10.2	0.6					
0.0220	5	10.5	11	7.5	0.6	6	13	12	10.2	0.6	7	18	14	15.2	0.6
	4	13	9	10.2	0.6										
0.0330	5	10.5	11	7.5	0.6	6	13	12	10.2	0.6	8.5	26.5	18.5	22.5	0.8
	5	10.5	11	10.2	0.6										
0.0470	6	13	12	10.2	0.6	6	13	12	10.2	0.6	8.5	26.5	18.5	22.5	0.8
0.0680	5.5	18	11	15.2	0.6	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8
0.1000	7	18	14	15.2	0.6	8	18	15	15.2	0.8	10	26.5	18.5	22.5	0.8
0.1500	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
0.2200	8.5	26.5	18.5	22.5	0.8	10	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
0.3300	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8
0.4700	8.5	26.5	18.5	22.5	0.8	15.5	32	24.5	27.5	0.8	17	41.5	29	37.5	0.8
0.6800	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8	17	41.5	29	37.5	0.8
1.0000	11	32	20	27.5	0.8	14	44	24	37.5	0.8	17	41.5	29	37.5	0.8
1.5000	15.5	32	24.5	27.5	0.8										
2.2000	15.5	32	24.5	27.5	0.8										

\*Tolerance codes:  $\pm 20\%$  - M,  $\pm 10\%$  - K,  $\pm 5\%$  - J,  $\pm 2.5\%$  -H ,  $\pm 2\%$ -G,  $\pm 1\%$ -F,  $\pm 0.5\%$ -E

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# ADVANCE CAPACITORS-METALLISED POLYPHENYLENE (PPS)

## GENERAL :

- ◆ Non Polar                      ◆ Low Losses                                      ◆ Good Stability
- ◆ Self Healing                      ◆ Low Temperature Co-efficient
- ◆ Wide Operating Temperature Range

## APPLICATIONS :

- ◆ Timers                                      ◆ High Ambient Temperature Applications
- ◆ Automotive Applications                      ◆ High Stability

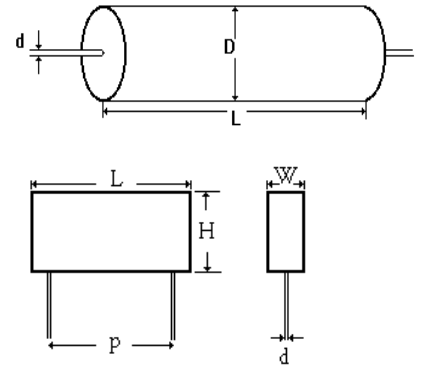
**STYLES :**        SMWF : Cylindrical, Tape Wrap, Axial lead  
                       SMF    : Rectangular, Box encased, Radial lead

## SPECIFICATIONS

Temperature range                                      : -55° C to +125° C  
 Tan delta    : <=0.002 at 1 kHz  
 Insulation Resistance                                      : 5000 Mohm.mfd(second), 15,000 Mohm max.  
 Test Voltage    : 1.6 times rated Voltage for 2s  
 Climatic Category    : 55/125/56  
 Tolerance    : ±1%, ±2%, ±5%, ±10%

### Axial Type (SMWF) :                                      **Dimensions in mm**

Voltage	63Vdc(SWD)			100Vdc (SWH)/ 160Vdc (SWR)			250Vdc (SWG)		
	D	L	d	D	L	D	D	L	d
Value							6.0	15.0	0.6
0.047									
0.068							7.0	15.0	0.6
0.100	6.0	15.0	0.6	6.0	15.0	0.6	8.0	15.0	0.6
0.150	7.0	15.0	0.6	7.0	15.0	0.6	9.0	15.0	0.6
0.220	7.0	15.0	0.6	7.0	15.0	0.6	8.0	19.0	0.6
0.330	8.0	15.0	0.6	8.0	15.0	0.6	10.0	19.0	0.8
0.470	7.0	15.0	0.6	7.0	19.0	0.6	11.0	19.0	0.8
0.680	6.0	19.0	0.6	8.0	19.0	0.6	8.5	27.0	0.8
1.000	7.0	19.0	0.6	10.0	19.0	0.8	10.0	27.0	0.8
1.500	8.0	19.0	0.6	9.0	27.0	0.6	15.0	27.0	0.8
2.200	10.0	19.0	0.8	11.0	27.0	0.8			
3.300	10.0	27.0	0.8	12.5	27.0	0.8			
4.700	11.0	27.0	0.8	13.0	32.0	0.8			
6.800	12.0	32.0	0.8	15.0	32.0	0.8			
10.00	13.0	32.0	0.8	19.0	32.0	0.8			



### Radial Type (SMF):                                      **Dimensions in mm**

Voltage	63Vdc					100 / 160 Vdc					250Vdc				
	W	L	H	p	d	W	L	H	p	d	W	L	H	p	d
Value															
0.047											5.0	13	11.0	10.2	0.6
0.068											5.0	13	11.0	10.2	0.6
0.100	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	6.0	13	12.0	10.2	0.6
0.150	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	7.0	18	13.1	15.2	0.6
0.220	5.0	13	11.0	10.2	0.6	6.0	13	12.0	10.2	0.6	7.0	18	13.1	15.2	0.6
0.330	5.0	13	11.0	10.2	0.6	5.5	18	11.0	15.2	0.6	9.0	18	14.5	15.2	0.8
0.470	6.0	13	12.0	10.2	0.6	7.0	18	13.1	15.2	0.6	9.0	18	14.5	15.2	0.8
0.680	6.8	13	13.0	10.2	0.6	6.5	18	12.0	15.2	0.8					
1.000	6.5	18	12.0	15.2	0.6	9.0	18	14.5	15.2	0.8					
1.500	7.0	18	13.1	15.2	0.6	8.5	27	18.5	22.5	0.8					
2.200	9.0	18	14.5	15.2	0.8	10.0	27	18.5	22.5	0.8					
3.300	10.0	27	18.5	22.5	0.8	10.5	31	21.0	27.5	0.8					
4.700	10.0	27	18.5	22.5	0.8	10.5	31	21.0	27.5	0.8					
6.800	13.5	32	23.5	27.5	0.8	13.5	32	23.5	27.5	0.8					
10.00	13.5	32	23.5	27.5	0.8	13.5	32	23.5	27.5	0.8					

## Advance Metallised Polypropylene Capacitors - PS series

### GENERAL

- ◆ Non Polar    ◆ High Insulation Resistance    ◆ Negative ppm
- ◆ Non Inductive    ◆ Low Losses    ◆ Good High Frequency Stability
- ◆ Low ESR    ◆ High Stability    ◆ Self Healing

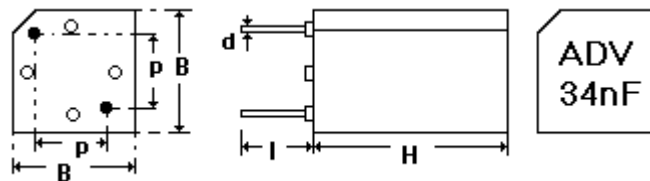
### APPLICATIONS

- ◆ Requiring Precision Capacitors    ◆ Timing Circuits    ◆ High Frequency Applications
- ◆ Measuring Instruments    ◆ L-C Filters
- ◆ Telephone Systems    ◆ Sample & Hold Circuits

**STANDARDS :**    IEC-384-16

### SPECIFICATIONS :

- Temperature Range    : -40°C to +85 °C
- Tolerance    : ±1%, ±2%, ±5%
- Terminals    : Tinned wires placed symmetrically along the base diagonal
- Tan Delta (C < 1uf)    : ≤ 0.0005 at 1 kHz
- Insulation Resistance    : > 100000Mohm @ 10Vdc
- Test Voltage    : 1.6 times rated DC Voltage
- Climatic Category    : 55/85/56
- Temperature Co-efficient    :  $-(200 \pm 100) * 10^{-6} / ^\circ\text{C}$  within Temperature Range
- Pulse Rise Time**    : **10 to 40 V/μS**
- Stability    :  $\Delta C/C \leq 0.5\%$  max. over 2000h at the rated voltage and 85°C
- Damp Heat test    : According to IEC 68-2-3 Test, Severity 56 days  $\Delta C/C \leq 0.5\%$
- Life Test    :  $\Delta C/C \leq 0.5\%$  max. over 2000h at the rated voltage and 85°C



### Dimensions in mm:

Capacitance Range	Rated Voltage	B	H	p	d	L
392pf to 14.7nf	63Vdc/40Vac	7.5	13.5	5.06	0.6	10min.
15nf to 34nf	63Vdc/40Vac	10	13.5	7.62	0.6	10min