



# ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.

Manufacturers of PLASTIC FILM CAPACITORS

Registered Office & Factory :  
3A-3A/1, Belavadi Indl Area, Mysore - 570 018, INDIA



ISO 9001 : 2015  
ISO 13485 : 2016

Phone : +91 821 2402307, 2402301, 2403058

E-mail : enquiries@advancecapacitors.com  
advcaps@gmail.com

Website : www.advance-capacitors.com

GSTIN : 29AABCA1720D1ZA

## ADVANCE Metallised Polycarbonate Capacitors

### GENERAL :

- Non-Polar
- Non-Inductive
- Self-Healing
- Low Dissipation Factor
- Higher Capacitance/ Voltage on request
- Epoxy Resin Sealed
- Humidity, Shock, Vibration Proof
- Tin-Electroplated Lead
- High Insulation Resistance

### APPLICATIONS:

- Instrumentation
- Communications
- R-C Circuits
- Control/Guidance Equipment
- Low PPM Applications
- Tuning
- Filter, Bypass
- Computers, Switching
- Close Tolerance

### STYLES :

- CMWF - Cylindrical, Tape Wrap, Epoxy End Fill, Axial Lead
- CMF - Rectangular, Plastic Case, Epoxy Fill, Radial Lead
- CMWOF - Oval Shape, Tape Wrap, Axial Lead
- CMTF - Cylindrical, Plastic case, Epoxy End Fill, Axial Lead

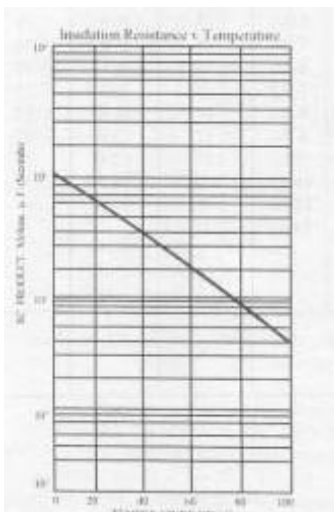
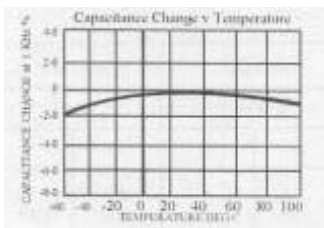
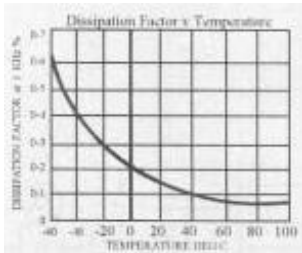
### STANDARDS:

JSS 50204 MIL-C-27287 IEC 384-6

### SPECIFICATIONS:

All measurements are made at 20 °C and 1kHz.

Temperature Range	: -55 °C to +125° C
Power Factor (Tan delta)	: ≤ 0.003 (typical 0.0015)
Insulation Resistance	: for voltage ≤ 100V >15,000 MΩ for capacitance ≤ 0.33μF > 5,000 MΩ*F for capacitance > 0.33 μF
	: for voltage >100V > 30,000 MΩ for capacitance ≤ 0.33μF > 15,000 MΩ*μF for capacitance > 0.33 μF
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%, ±2.5%, ±2%, ±1%, ±0.5%





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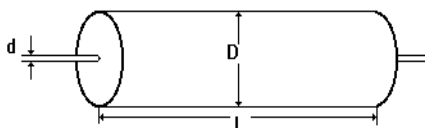
Website : www.advance-capacitors.com

GSTIN : 29AABCA1720D1ZA

## METALLISED POLYCARBONATE CAPACITORS

**Type CMWF** : 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



**Dimensions (Max) in mm**

Voltage	63 VDC / CWD			100 VDC / CWH			250 VDC / CWG			400 VDC/ CWW			630 VDC / CWK		
	D	L	d	D	L	D	D	L	D	D	L	d	D	L	D
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
0.0150	6.0	16.5	0.6	6.0	16.5	0.6	6.0	16.5	0.6	6.0	16.5	0.6	7.0	16.5	0.6
0.0220	6.0	16.5	0.6	6.0	16.5	0.6	6.5	16.5	0.6	6.0	16.5	0.6	8.0	16.5	0.6
0.0330	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.0	16.5	0.6	8.0	20.5	0.6
0.0470	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	8.0	16.5	0.6	9.5	20.5	0.6
0.0680	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	9.0	16.5	0.6	10.5	20.5	0.8
0.1000	6.5	16.5	0.6	6.5	16.5	0.6	8.0	16.5	0.6	9.0	20.5	0.6	9.5	29.0	0.8
0.1500	6.5	16.5	0.6	6.5	16.5	0.6	9.5	16.5	0.8	10.0	20.5	0.8	11.0	29.0	0.8
0.2200	6.5	16.5	0.6	7.0	16.5	0.6	9.0	20.5	0.6	10.0	29.0	0.8	12.5	29.0	0.8
0.3300	7.0	16.5	0.6	7.5	16.5	0.6	10.5	20.5	0.8	11.0	29.0	0.8	14.0	34.0	0.8
0.4700	7.0	16.5	0.6	7.5	20.5	0.6	12.5	20.5	0.8	13.0	29.0	0.8	16.5	34.0	0.8
0.6800	7.5	20.5	0.6	8.5	20.5	0.8	12.0	29.0	0.8	14.0	34.0	0.8			
1.0000	7.5	20.5	0.6	9.9	20.5	0.8	13.5	29.0	0.8	16.0	34.0	0.8			
1.5000	8.5	20.5	0.8	9.5	29.0	0.8	15.0	34.0	0.8						
2.2000	10.0	29.0	0.8	11.0	29.0	0.8	17.0	34.0	0.8						
3.3000	10.5	29.0	0.8	13.0	29.0	0.8									
4.7000	11.5	29.0	0.8	14.0	34.0	0.8									
6.8000	13.0	34.0	0.8	16.5	34.0	0.8									
10.000	14.5	34.0	0.8	19.5	34.0	0.8									

Note: Higher Capacitance / Voltage available on request

Printing on capacitors for identification:

**Description**

Brand name

Capacitance/tolerance\*/Voltage rating

Style type / Batch number ( for some variants)

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

**Example**

ADV

.1K100V

CMF U1032



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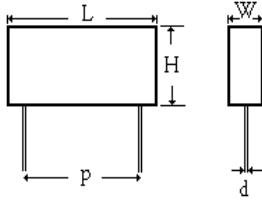
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## METALLISED POLYCARBONATE CAPACITORS – JSS 50204

**Type CMF** : 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 polypropylene cases and completely potted in epoxy to provide superior moisture, shock and vibration protection.

**Dimensions (Max)** in mm

Case Size	W	L	H	C	d
1A	4.0	13.0	9.0	10.2	0.6
1B	5.0	13.0	11.0	10.2	0.6
1C	6.0	13.0	12.0	10.2	0.6
1D	6.8	13.0	13.0	10.2	0.6
2A	5.0	18.0	11.0	15.2	0.6
2B	6.0	18.0	12.0	15.2	0.6
2C	8.0	18.0	15.0	15.2	0.6
3A	8.5	26.5	17.0	22.5	0.8
3B	10.0	26.5	18.5	22.5	0.8
4A	11.0	32.0	20.0	27.5	0.8

Voltage	63 Vdc / 45 Vac	160 Vdc / 100 Vac	250 Vdc / 150 Vac	400 Vdc / 250 Vac	630 Vdc / 250 Vac
Capacitance in $\mu\text{F}$	Case Size	Case Size	Case Size	Case Size	Case Size
0.0100	1A	1A	1A	1A	1A
0.0150	1A	1A	1A	1A	1A
0.0220	1A	1A	1A	1A	1D
0.0330	1A	1A	1A	1C	2A
0.0470	1A	1A	1A	1C	2B
0.0680	1A	1A	1A	2A	2C
0.1000	1A	1A	1C	2A	2C
0.1500	1A	1A	2A	2C	
0.2200	1A	1C	2B	2C	
0.3300	1A	2A	2C	3A	
0.4700	1B	2B	3A	3A	
0.6800	1C	2C	3A	3B	
1.0000	2B	2C	3B	4A	
1.5000	2B	3A	4A		
2.2000	2C	3A	4A		
3.3000	3A	3B			
4.7000	3A	4A			
6.8000	3A	4A			
10.000	4A				



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## Metallised Polypropylene Axial 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

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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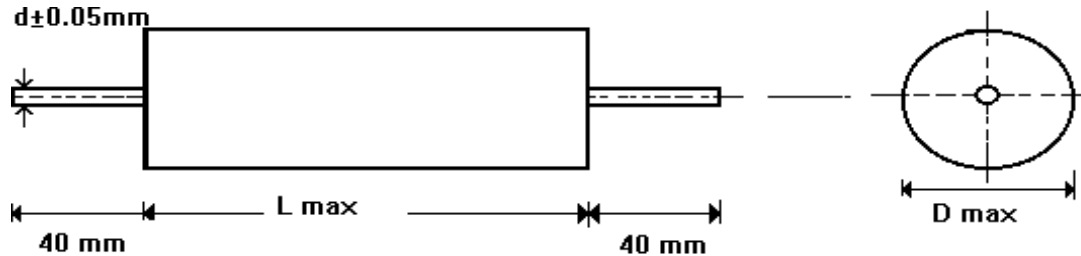
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Website : www.advance-capacitors.com

GSTIN : 29AABCA1720D1ZA

## METALLISED POLYPROPYLENE CAPACITORS – TYPE :MKP-5



$d=0.6mm$  for  $D<8.0mm$   
 $d=0.8mm$  for  $D>8.0mm$

DIMENSIONS : ( in mm)

CAP $\mu F$	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						

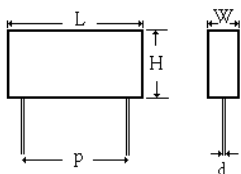
Note: Other values available on request

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	C	d	Case Size	W	L	H	C	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	E1	E1
0.47	E1	E1	E1	E1	D3	E1	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	-	-	-





## Metallised Polypropylene Snubber capacitors-FKP6

### GENERAL

- ◆ Non Polar
- ◆ Low Losses
- ◆ Low ESR, ESL
- ◆ High Insulation Resistance
- ◆ Suitable for High Frequencies
- ◆ Self Healing

Snubbers are high peak current capacitors used in power semiconductor circuits for energy conversion. And, they are used to suppress or attenuate high voltage peaks to protect semiconductor devices.

Advance snubber capacitors are made using internationally accepted series metallised technology for self-healing property. Aluminium foil electrodes are used for high peak current capacities. Capacitor elements are non-inductive and encapsulated in a yellow tape wrap end sealed with flame retardant thermosetting epoxy resin for environmental protection.

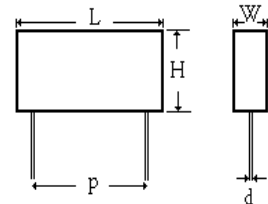
### APPLICATIONS :

- ◆ IGBT Module Protection
- ◆ Energy Conversion in power electronics
- ◆ Thyristor protection
- ◆ High Pulse applications

**TYPE: FKP-6** Radial box type      **STANDARDS :** IEC-384-14

### SPECIFICATIONS :

Dielectric Film	: Polypropylene film + Aluminium Foil
Temperature Range	: -55 °C to +105 °C
Tan Delta (C < 1uf)	: ≤ 0.0005 @ 1kHz and 25°C
Insulation Resistance	: ≥ 5000MΩ*μF
Test Voltage	: 1.6 times rated DC Voltage
Climatic Category	: 55/100/56
Voltage Derating	: 1.5% per C above 85°C
Tolerance	: ±5%, ±10%
Stability	: < 0.5% over 2 Years
Terminals	: Tinned copper leads (PCB mounting application)



No	Description	I <sub>peak</sub> A	Dv/dt V/μS	Dimensions W*L*H*PITCH
1	0.0010μF 2000vDC/750VAC ±10%	≥13	13000	6*12*18*15.2
2	0.0022μF 2000vDC/750VAC ±10%	≥28	13000	6*12*18*15.2
3	0.0047μF 2000vDC/750VAC ±10%	≥61	13000	7.5*18*14*15.2
4	0.0068μF 2000VDC/750VAC ±10%	≥ 81	13000	8.5*18*14.5*15.2
5	0.0100μF 2000VDC/750VAC ±10%	≥ 130	6000	11*32*21*27.5
6	0.0220μF 2000VDC/750VAC ±10%	≥ 286	6000	11*32*21*27.5
7	0.0470μF 2000VDC/750VAC ±10%	≥ 300	6000	11*32*21*27.5
8	0.0680μF 2000VDC/750VAC ±10%	≥ 400	6000	11*32*21*27.5



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Website : [www.advance-capacitors.com](http://www.advance-capacitors.com)

GSTIN : 29AABCA1720D1ZA

## ADVANCE CAPACITORS-METALLISED POLYPHENYLENE (PPS)

### GENERAL :

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

### APPLICATIONS :

- ◆ Timers
- ◆ Automotive Applications
- ◆ High Ambient Temperature 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%
Marking Details	: ADVANCE Value / Tolerance Voltage Style code Batch No./Month and Year code





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AND INSTRUMENTS PVT. LTD.**

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Registered Office & Factory :  
3A-3A/1, Belavadi Indl.Area, Mysore - 570 018. INDIA



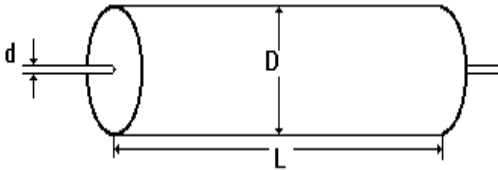
Phone : +91 821 2402307, 2402301, 2403058

E-mail : enquiries@advancecapacitors.com  
advcaps@gmail.com

Website : www.advance-capacitors.com

GSTIN : 29AABCA1720D1ZA

**ADVANCE CAPACITORS-METALLISED POLYPHENYLENE SULPHIDE (PPS)**



**Axial Type (SMWF) :**

**Dimensions in mm**

Voltage	63Vdc (SWD)			100Vdc (SWH) / 160Vdc (SWR)			250Vdc (SWG)		
	D	L	d	D	L	D	D	L	d
0.047							6.0	15.0	0.6
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			
1.000	7.0	19.0	0.6	10.0	19.0	0.8			
1.500	8.0	19.0	0.6	9.0	27.0	0.6			
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			



# ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.

Manufacturers of PLASTIC FILM CAPACITORS

Registered Office & Factory :  
3A-3A/1, Belavadi Indl.Area, Mysore - 570 018. INDIA



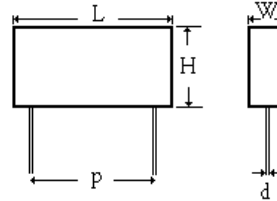
ISO 9001 : 2015  
ISO 13485 : 2015

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advcaps@gmail.com

Website : www.advance-capacitors.com

GSTIN : 29AABCA1720D1ZA



## Radial Type (SMF):

## Dimensions in mm

Voltage Value	63Vdc					100 / 160 Vdc					250Vdc				
	W	L	H	p	d	W	L	H	p	d	W	L	H	p	d
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					