ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.
Mfrs. of PLASTIC FILM CAPACITORS & EMI NOISE FILTERS
Registered Office & Factory :
3A-3A/1, Belavadi Indl.Area, Mysore - 570 018. INDIA
Phone : +91 821 2402307, 2402301
E-mail : enquiries@advancecapacitors.com
advcaps@gmail.com
Website : www.advance-capacitors.com
An ISO 9001 & ISO 13485 Company
GSTIN : 29AABCA1720D1ZA

An ISO 9001:2015 & ISO 13485:2016 Company

CATALOGUES
2026

Registered Office and Factory:
3A-3A/1, Belavadi Industrial Area
Mysore – 570018
Mobile & WhatsApp: +91 8073111025
E-mail : **advcaps@gmail.com** / **enquiries@advancecapacitors.com**
Website: www.advance-capacitors.com

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ADVANCE General Film Capacitors : Catalog List

GENERAL FILM CAPACITORS

List of Catalgoues: Page No.

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Advance 250/275Vac EMI Supression Capacitors- X2 type

CE marked

GENERAL :

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

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

STYLES :

Type Code : MKP-5 / X2 : Axial Lead MKP-4 / X2 : Radial Lead

STANDARDS : IEC- 384-14

Packing: Bulk

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	: 0.01µF to 5.6µF
Tolerance	: ±1%, ±2%, ±5%, ±10%, ±20%
Tan Delta (C < 1µF)	: 0.001 at 1 KHz
Insulation Resistance at 100Vdc	: 5,000 Mohm x µF 15000Mohm max.
Test Voltage X2	: 4.3 times rated voltage
Pulse Rise Time	: 40 to 100 V/µS
Impulse Voltage X2	: 2.5 KV as per IEC 384-14 (for rated voltage ≥ 250Vac)

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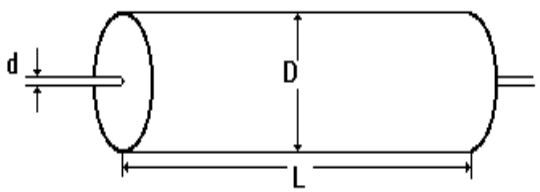
EMI SUPPRESION CLASS X2

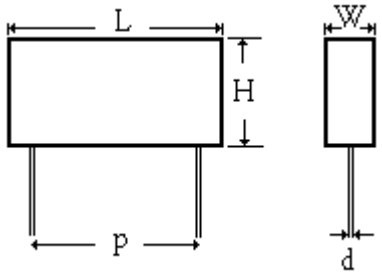
CE marked

Dimensions:

Type	Capacitance in µF	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 µF	W mm	L mm	H Mm	P mm	d mm
MKP-4 X2 Radial	0.01	5	13	11	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	19	22.5	0.8
	0.33	10	26	19	22.5	0.8
	0.47	10	26	19	22.5	0.8
	1	15	32.5	24	29	0.8





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250/275Vac EMI Supression Capacitors- Y2 type

GENERAL :

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

CE marked

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	: 250/275Vac; 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

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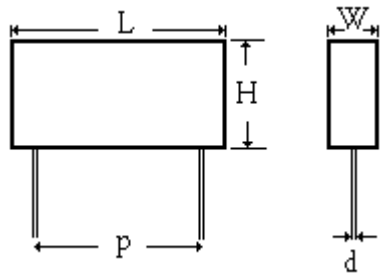
ADVANCE CAPACITORS

EMI SUPPRESION CLASS Y2

CE marked

Dimensions:

Type	Capacitance in µF	W mm	L mm	H Mm	P mm	d mm
MKP-4S Y2 Radial	0.0022	5.5	18.0	11.0	15.2	0.6
	0.0033	6.0	18.0	12.0	15.2	0.6
	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



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440Vac EMI Supression Capacitors- X2 type

GENERAL :

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

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
- Power Line Frequency Applications
- Switch Mode Power Supplies
- 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	: 0.022µF to 1.0µF
Tolerance	: ±1%, ±2%, ±5%, ±10%, ±20%
Tan Delta (C < 1uF)	: 0.001 at 1 KHz
Insulation Resistance at 100Vdc	: 5,000 MΩ* µF 15000MΩ max.
DC Test Voltage X2	: 4.3 times rated ac voltage
Pulse Rise Time	: 40 to 100 V/µS
Impulse Voltage X2 (for rated voltage ≥ 250Vac)	: ≤ 2.5 kV, as per IEC 384-14

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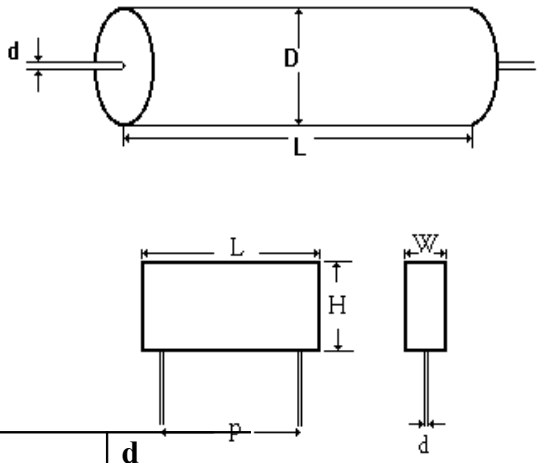
ADVANCE CAPACITORS

INTERFERENCE SUPPRESION CLASS X2

Dimensions:



Type	Capacitance in µF	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 µF	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 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

Registered Office and Factory:
Advance Components and Instruments Pvt Ltd
3A-3A/1, Belavadi Industrial Area ,Mysore – 570018 KARNATAKA
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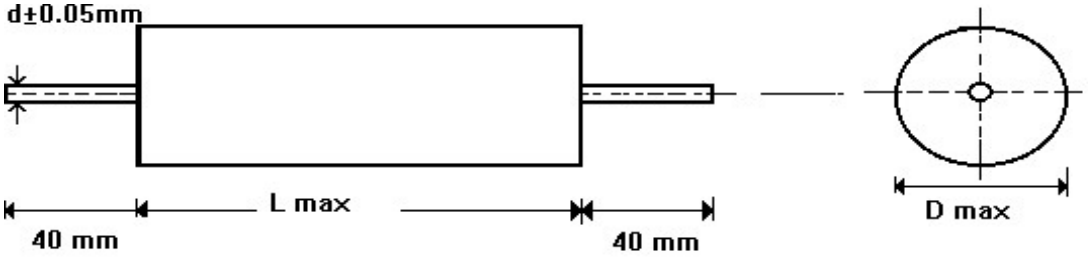
E-mail : **advcaps@gmail.com** / **enquiries@advancecapacitors.com**
Website: www.advance-capacitors.com

METALLISED POLYPROPYLENE CAPACITORS – TYPE :MKP-5



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

DIMENSIONS : (in mm)

CAP	63 / 100 /160 / 250 VDC		400VDC		630 VDC		1000 VDC	
µF	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

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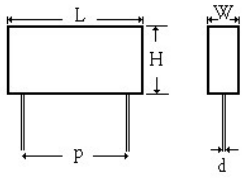
METALLISED POLYPROPYLENE CAPACITORS – TYPE:MKP-4

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	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	F2
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	-	-	-

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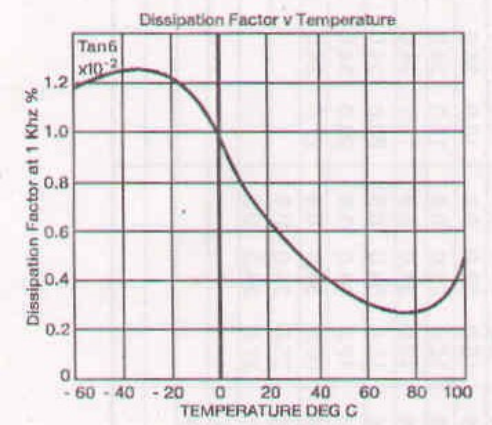
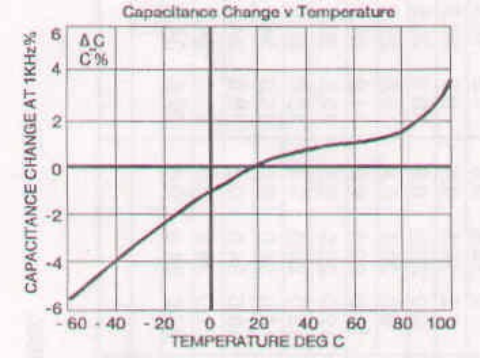
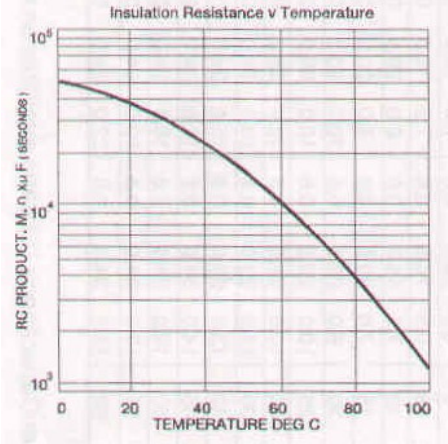
GSTIN : 29AABCA1720D1ZA

Metallised Polyester Capacitors







GENERAL :

- Non-Polar
- Non-Inductive
- Self –Healing
- Epoxy Resin Sealed
- Humidity, Shock, Vibration Proof
- 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 – MWOF - Oval Shape, Tape Wrap, Axial Lead
- Type- MMMF – Miniature Rectangular, Radial lead, 5mm pitch

STANDARDS:

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

SPECIFICATIONS:

All measurements are made at 20°C
Capacitance and Tan Delta are measured at 1kHz.

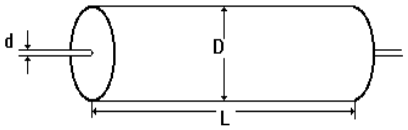
Temperature Range	:-55°C + 125°C
Power Factor (Tan delta)	: <= 0.008 (Typical 0.006)
Insulation Resistance	: Capacitance <=0.33µF > 30000 MΩ*µF
	Capacitance > 0.33µF > 10000 MΩ*µF second
Test Voltage	: 1.6 x rated dc voltage
Climatic Category	: 55/125/56
Voltage derating	: 1.5% per °C for use above 85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

Closer Tolerance available on request

Metallised Polyphenylene Sulphide or Metallised Polypropylene is recommended for Closer Tolerance

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



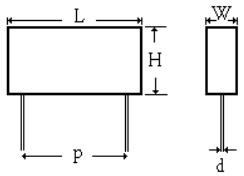
Dimensions (Max) in mm

Voltage	WD / 63 VDC			WH / 100 VDC			WR / 160 VDC			WG / 250 VDC			WW/ 400 VDC			WK / 630 VDC			WX / 1000 VDC		
Value	D	L	d	D	L	d	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	6.5	16.5	0.6	9.0	20.5	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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	0.8
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

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	C5	7.0	18.0	14.0	15.2	0.6
A3	6.0	10.5	12.0	7.5	0.6	C6	7.5	18.5	13.5	15.2	0.6
B1	4.0	13.0	9.0	10.2	0.6	C7	8.0	18.0	15.0	15.2	0.8
B2	5.0	13.0	11.0	10.2	0.6	D2	8.5	26.5	17.0	22.5	0.8
B3	6.0	13.0	12.0	10.2	0.6	D3	10.0	26.5	18.5	22.5	0.8
B4	6.8	13.0	13.0	10.2	0.6	E1	11.0	32.0	20.0	27.5	0.8
C1	5.0	18.0	11.0	15.2	0.6	E2	15.5	32.0	24.5	27.5	0.8
C2	5.5	18.0	11.0	15.2	0.6	F1	17.0	41.5	29.0	37.5	0.8
C3	6.0	18.0	12.0	15.2	0.6	F2	14.0	44.0	24.0	37.5	0.8

Voltage	63V	100V	160V	250V	400V	630V	1000V
Value	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size
0.0100	B1	B1	B1	B1	B1	B1	C2
0.0150	B1	B1	B1	B1	B1	B2	C2
0.0220	B1	B1	B1	B1	B1	B3	C4
0.0330	B1	B1	B1	B1	B2	C2	D2
0.0470	B1	B1	B1	B1	B3	C4	D2
0.0680	B1	B1	B1	B1	C2	C6	D2
0.1000	B1	B1	B1	B2	C5	C7	D3
0.1500	B1	B1	B1	C2	C7	D2	E1
0.2200	B2	B2	B2	C2	D2	D3	E1
0.3300	B2	C2	C3	C3	D2	E1	
0.4700	B3	C2	C5	C7	D2	E2	
0.6800	B4	C5	C7	D2	E1	E2	
1.0000	C4	C5	C7	D2	E1	F2	
1.5000	C5	D2	D2	E1	E2		
2.2000	C7	D2	D3	E1			
3.3000	D2	D3	E1	E2			
4.7000	D2	E1	E1				
6.8000	D3	E2	E2				
10.000	E1	E2					

Printing on capacitors for identification:

Description	**Example**
Brand name	ADV
Capacitance/tolerance*/Voltage rating	.1K100V
Style type / Batch number (for some variants)	MF U1032

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

METALLISED POLYESTER CAPACITORS – AXIAL MINIATURE TYPE

Type MMWF : 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. Electrically these capacitors conform to JSS 50204 CPM 07

Dimensions (in mm) : Body Diameter : 6.5mm max. Length : 11mm max.
Lead Diameter: 0.6mm Lead Length: 30mm min.

Voltage VDC	Capacitance Range µF	Voltage VDC	Capacitance Range µF
63	0.001 to 0.15	400	0.001 to 0.01
100	0.001 to 0.1	630	0.001 to 0.0068
160	0.001 to 0.1	1000	0.001 to 0.0068
250	0.001 to 0.047		

METALLISED POLYESTER CAPACITORS – RADIAL MINIATURE TYPE

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. Electrically these capacitors conform to JSS 50204 CPM 08

Dimensions (in mm) :

7.5mm pitch Type: MMF						
Capacitance µF	63V	100V	160V	250V	400V	630V
	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size
0.0010	A1	A1	A1	A1	A1	A1
0.0015	A1	A1	A1	A1	A1	A1
0.0022	A1	A1	A1	A1	A1	A1
0.0033	A1	A1	A1	A1	A1	A1
0.0047	A1	A1	A1	A1	A1	A1
0.0068	A1	A1	A1	A1	A1	A1
0.0100	A1	A1	A1	A1	A1	A1
0.0150	A1	A1	A1	A1	A1	A3
0.0220	A1	A1	A1	A1	A3	
0.0330	A1	A1	A1	A3	A3	
0.0470	A1	A1	A1	A3		
0.0680	A1	A1	A1	A3		
0.1000	A1	A1	A3	A3		
0.1500	A1	A1	A3			
0.2200	A3	A3	A3			
0.3300	A3	A3				
0.4700	A3	A3				
0.6800	A3					

Note: Please refer to page no.3 for Case sizes

Advance Components & Instruments Pvt. Limited
Reg. Office & Factory : 3A Belawadi Industrial Area, Mysore – 570 018
E-mail : enquiries@advancecapacitors.com / advcaps@gmail.com
Website: www.advance-capacitors.com

ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.
Mfrs. of PLASTIC FILM CAPACITORS & EMI NOISE FILTERS
Registered Office & Factory :
3A-3A/1, Belavadi Indl.Area, Mysore - 570 018. INDIA

Phone : +91 821 2402307, 2402301
E-mail : enquiries@advancecapacitors.com
advcaps@gmail.com
Website : www.advance-capacitors.com

An ISO 9001 & ISO 13485 Company
GSTIN : 29AABCA1720D1ZA

ADVANCE CAPACITORS-Metallised Polyphenylene Sulphide (PPS)

GENERAL :

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

APPLICATIONS :

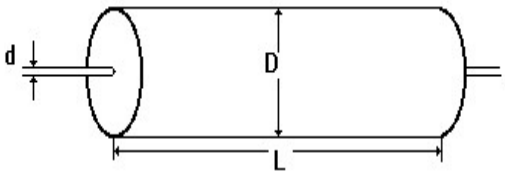
- ◆ Timers
- ◆ High Ambient Temperature Applications
- ◆ Automotive Applications
- ◆ High Stability

SPECIFICATIONS

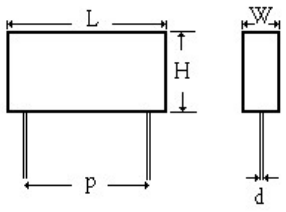
Temperature range	: -55° C to +125° C
Tan delta	: <=0.002 at 1 kHz
Insulation Resistance	: 5000 Mohm.mfd(second), 15,000 Mohm max.
Test Voltage	: 1.6 times rated Voltage for 2s
Climatic Category	: 55/125/56
Tolerance	: ±1%, ±2%, ±5%, ±10%
Marking Details	: ADVANCE Value / Tolerance Voltage Style code Batch No./Month and Year code

STYLES :

SMWF: Cylindrical, Tape Wrap, Axial lead



SMF: Rectangular, Box encased, Radial lead



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advcaps@gmail.com
Website : www.advance-capacitors.com
An ISO 9001 & ISO 13485 Company
GSTIN : 29AABCA1720D1ZA

ADVANCE CAPACITORS-METALLISED POLYPHENYLENE SULPHIDE (PPS)

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

Voltage	63Vdc (SWD)			100Vdc (SWH) / 160Vdc (SWR)			250Vdc (SWG)			400Vdc (SWW)		
Value	D	L	d	D	L	d	D	L	d	D	L	d
0.010	6.0	15.0	0.6	6.0	15.0	0.6	6.0	15.0	0.6	6.0	15.0	0.6
0.022	6.0	15.0	0.6	6.0	15.0	0.6	6.0	15.0	0.6	6.0	15.0	0.6
0.033	6.0	15.0	0.6	6.0	15.0	0.6	6.0	15.0	0.6	7.0	15.0	0.6
0.047	6.0	15.0	0.6	6.0	15.0	0.6	6.0	15.0	0.6	8.0	15.0	0.6
0.068	6.0	15.0	0.6	6.0	15.0	0.6	7.0	15.0	0.6	8.0	15.0	0.6
0.100	6.0	15.0	0.6	6.0	15.0	0.6	8.0	15.0	0.6	8.0	19	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						

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

Voltage	63Vdc					100 / 160 Vdc					250Vdc					400Vdc				
Value	W	L	H	p	d	W	L	H	p	d	W	L	H	p	d	W	L	H	p	d
0.010	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6
0.022	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6
0.033	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6
0.047	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	6	13	12	10.2	0.6
0.068	5.0	13	11.0	10.2	0.6	5.0	13	11.0	10.2	0.6	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										

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advcaps@gmail.com
Website : www.advance-capacitors.com
An ISO 9001 & ISO 13485 Company
GSTIN : 29AABCA1720D1ZA

Advance High Precision Metallised Polypropylene Capacitors
PS series

General Specifications:

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

Applications:

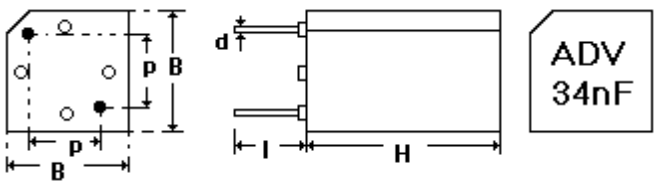
- ♦ High Reliability & Precision applications
- ♦ High Frequency Applications
- ♦ L-C Filters
- ♦ Timing Circuits
- ♦ Measuring Instruments
- ♦ Sample & Hold Circuits

Standards : IEC-384-16

Technical Specifications :

Temperature Range	: -40°C to +85 °C
Case	: Plastic box in tower-block shape end filled with epoxy resin
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±100)*10^{-6}/°C within Temperature Range
Pulse Rise Time	: 10 to 40 V/µS
Stability	: ΔC/C <=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 ΔC/C <=0.5%
Life Test	: ΔC/C <=0.5%max. over 2000h at the rated voltage and 85°C

Dimensions in mm:



ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.
Mfrs. of PLASTIC FILM CAPACITORS & EMI NOISE FILTERS
Registered Office & Factory :
3A-3A/1, Belavadi Indl.Area, Mysore - 570 018. INDIA

Phone : +91 821 2402307, 2402301
E-mail : enquiries@advancecapacitors.com
advcaps@gmail.com
Website : www.advance-capacitors.com

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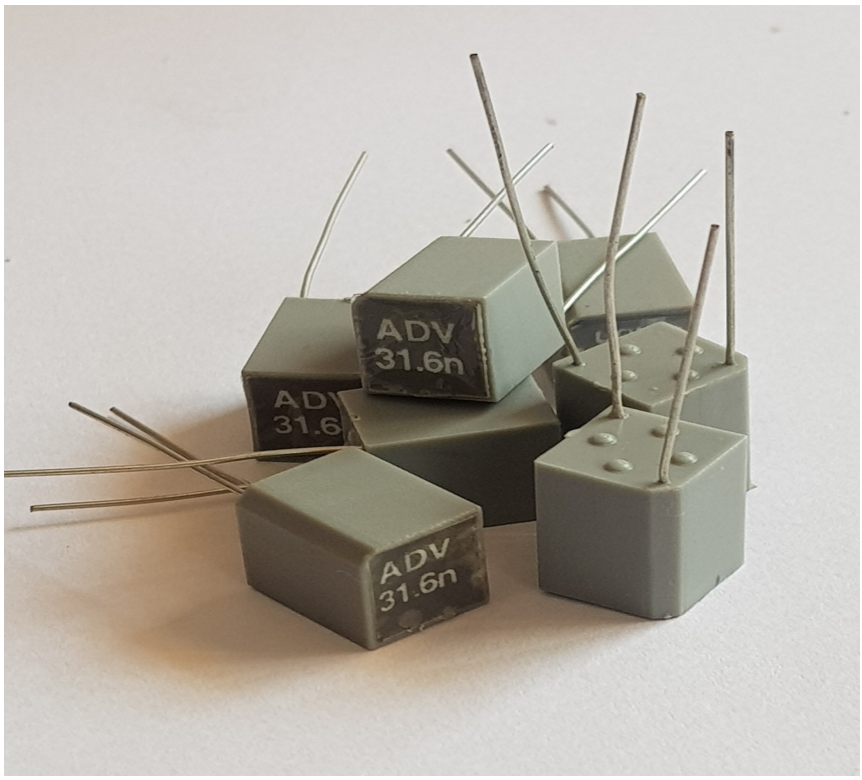
GSTIN : 29AABCA1720D1ZA

Capacitance Range	Rated Voltage	B mm	H mm	p mm	d mm	l min. mm	Size code
100pf to 8.2nf	63Vdc/40Vac	6.5	14	5.06	0.6	10	SH0
10nf to 14.7nf	63Vdc/40Vac	7.5	14	5.06	0.6	10	SH1
15nf to 33nf	63Vdc/40Vac	10	14	7.62	0.6	10	SH2
39nf to 412nf	63Vdc/40Vac	12.5	14	10.16	0.6	10	SH3



Registered Office and Factory:
Advance Components and Instruments Pvt Ltd
3A-3A/1, Belavadi Industrial Area ,Mysore – 570018 KARNATAKA
Mobile & WhatsApp: +91 8073111025
E-mail : **advcaps@gmail.com** / **enquiries@advancecapacitors.com**
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ADVANCE Metallised Polypropylene series foil snubber Capacitors

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-7** Cylindrical, Tape wrap / wrap flat, Axial Lead

STANDARDS : IEC-384-14

SPECIFICATIONS :

Dielectric Film	: Polypropylene film + Al.Foil
Temperature Range	: -55 °C to +105 °C
Tan Delta (C < 1uf)	: ≤ 0.0005 @ 1kHz and 25°C
Insulation Resistance	: for C ≤ 0.33µF ≥100,000MΩ
at 100 V DC	: for C > 0.33µF ≥ 30,000MΩ
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

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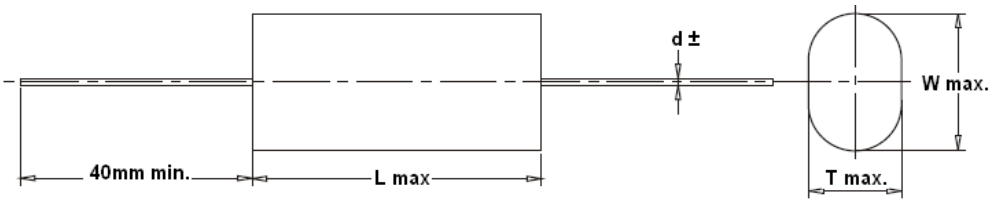
Advance Polypropylene Series Foil Snubber Capacitors – FKP-7



Rated Voltage 850Vdc / 450Vac

Capacitance	T max	W max	L max	d	dv/dt , V/µS	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, mΩ
0.150	10.0	16.0	34.0	1.0	800	120	7.4	6
0.220	12.0	18.0	34.0	1.0	800	176	8.0	6
0.330	14.0	20.0	34.0	1.0	800	264	9.4	5
0.470	17.0	23.0	34.0	1.0	800	376	11.7	5
0.680	19.0	25.0	46.0	1.2	500	340	13.8	4
1.000	22.0	33.0	46.0	1.2	500	500	14.4	3
1.200	22.0	33.0	46.0	1.2	400	480	16.7	3
1.500	24.0	34.0	46.0	1.2	400	600	20.3	2

Rated Voltage 1000 Vdc / 500 Vac

Capacitance	T max	W max	L max	d	dv/dt , V/µS	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, mΩ
0.220	12.0	18.0	34.0	1.0	800	176	8.0	6
0.330	14.0	20.0	34.0	1.0	800	264	9.4	5
0.470	17.0	23.0	34.0	1.0	800	376	11.7	5
0.680	19.0	25.0	46.0	1.2	500	340	13.8	4
1.000	22.0	33.0	46.0	1.2	500	500	14.4	3
1.200	22.0	33.0	46.0	1.2	400	480	16.7	3
1.500	24.0	34.0	46.0	1.2	400	600	20.3	2

Rated Voltage 1600Vdc / 630Vac

Capacitance	Tmax	W max	L max	d	dv/dt , V/µS	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, mΩ
0.100	13.0	19.0	34.0	1.0	1100	110	9.0	7
0.150	16.0	21.0	34.0	1.0	1100	165	10.0	7
0.220	18.0	25.0	34.0	1.2	1100	242	12.0	7
0.330	17.0	23.0	46.0	1.2	900	297	12.0	7
0.470	21.5	28.5	46.0	1.2	900	423	13.8	6
0.680	23.5	34.0	46.0	1.2	900	612	14.5	6

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Rated Voltage 2000 Vdc / 630Vac

Capacitance	Tmax	W max	L max	d	dv/dt , V/µS	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, mΩ
0.033	8.0	14.0	34.0	1.0	1200	40	4.8	19
0.047	9.0	16.0	34.0	1.0	1200	56	6.7	10
0.068	11.0	18.0	34.0	1.0	1200	81	7.9	8
0.100	14.0	20.0	34.0	1.0	1200	120	9.5	6
0.150	14.0	23.0	46.0	1.0	950	142	10.0	6
0.220	16.0	27.0	46.0	1.0	950	209	11.0	6
0.330	18.0	27.0	46.0	1.2	850	280	12.8	5
0.470	19.0	33.0	46.0	1.2	850	400	15.0	5

Rated Voltage 2500 Vdc / 750Vac

Capacitance	Tmax	W max	L max	d	dv/dt , V/µS	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, mΩ
0.033	9.2	16.0	34.0	1.0	1300	43	4.8	19
0.047	10.0	17.0	34.0	1.0	1300	61	6.5	10
0.068	12.0	19.0	34.0	1.0	1300	88	8.6	8
0.100	15.0	21.0	34.0	1.0	1300	130	9.8	6
0.150	15.0	24.0	46.0	1.0	1050	157	10.9	6
0.220	18.0	27.0	46.0	1.0	950	209	11.2	6
0.330	19.0	33.0	46.0	1.2	950	313	13.5	5

Rated Voltage 3000 Vdc / 750Vac

Capacitance	Tmax	W max	L max	d	dv/dt , V/µS	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, mΩ
0.015	8.5	15.5	34.0	1.0	1500	22	3.0	35
0.022	9.2	16.0	34.0	1.0	1500	33	4.2	22
0.033	10.0	17.0	34.0	1.0	1500	49	6.1	12
0.047	12.0	19.0	34.0	1.0	1200	56	6.8	12
0.068	14.0	21.0	46.0	1.0	1200	81	7.9	10
0.100	15.0	24.0	46.0	1.2	1200	120	9.3	8
0.150	18.0	27.0	46.0	1.2	1200	180	12.0	6

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ADVANCE CAPACITORS FOR HIGH-END AUDIO APPLICATIONS
MKP-5 series

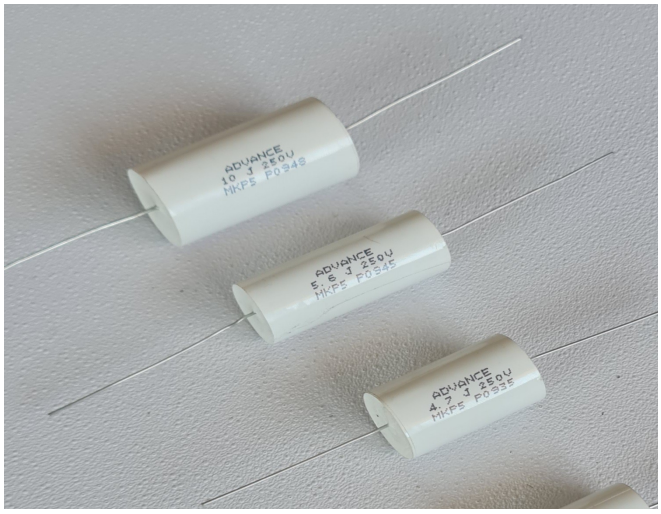
Advance Metallised Polypropylene Film capacitors (MKP-5 series) have excellent characteristics and are best suited for high quality Audiophile products such as power amplifiers and loudspeaker crossovers

General Specifications:

- ♦ Polypropylene as dielectric, low loss
- ♦ Dry type / partially oil impregnated
- ♦ Red/Blue/Yellow/White colour Polyester tape
- ♦ End filled with thermosetting resin
- ♦ Non-inductive, Non-polar
- ♦ Self-healing
- ♦ Tinned Copper wire terminals
- ♦ As per IEC 60384-16 standard

Technical Specifications:

Capacitance Range	: 0.1µF to 330µF	
Voltage Rating	: 250Vdc, 400Vdc & 630Vdc	
Tolerance	: ±1%, ±2%, ±5%, ±10%	
Temperature range	: -55°C to +100°C	
Test Voltage (10s)	: 1.6 times the rated DC voltage	
Dissipation factor (tan δ)	: 0.0005 for C ≤ 5µF	0.0010 for C ≤ 10µF
	0.0020 for C ≤ 100µF	0.0040 for C ≤ 200µF
	0.0050 for C ≤ 300µF	



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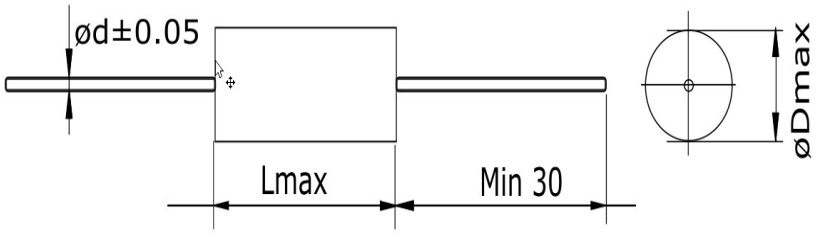
Dimensions in mm (not to scale):



250VDC		
Value, C	D	L
1.0µF	15	28
1.5µF	13	33
2.2µF	15	33
3.3µF	17	33
4.7µF	21	33
5.6µF	19	45
6.8µF	21	45
8.2µF	23	45
10µF	25	45
20µF	36	45
30µF	37	60
50µF	47	60
80µF	58	60
100µF	65	60

400Vdc		
Value, C	D	L
1.0µF	12	34
1.5µF	15	34
2.2µF	18	34
3.3µF	22	34
4.7µF	24	34
5.6µF	27	34
6.8µF	30	34
8.2µF	30	46
10µF	32	46
20µF	43	46
30µF	45	60
50µF	55	60
80µF	55	85
100µF	63	85

630Vdc		
Value, C	D	L
1.0µF	17	34
1.5µF	20	34
2.2µF	24	34
3.3µF	28	34
4.7µF	33	34
5.6µF	36	34
6.8µF	35	45
8.2µF	38	45
10µF	42	45
12µF	44	45
15µF	49	45
20µF	48	60
33µF	60	60
47µF	70	60

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Advance Components and Instruments Pvt Ltd
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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.

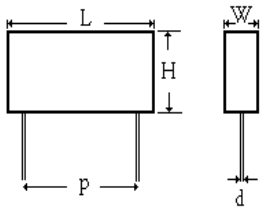
APPLICATIONS :

- 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	Ipeak 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%	≥ 60	6000	11*32*21*27.5
6	0.0220µF 2000VDC/750VAC ±10%	≥ 132	6000	11*32*21*27.5
7	0.0470µF 2000VDC/750VAC ±10%	≥ 282	6000	11*32*21*27.5
8	0.0680µF 2000VDC/750VAC ±10%	≥ 400	6000	11*32*21*27.5