



ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.

Manufacturers of PLASTIC FILM CAPACITORS

An ISO 9001:2015 & ISO 13485:2016 Company

CATALOGUES 2024



Registered Office and Factory:

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**ADVANCE COMPONENTS
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
- ◆ 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

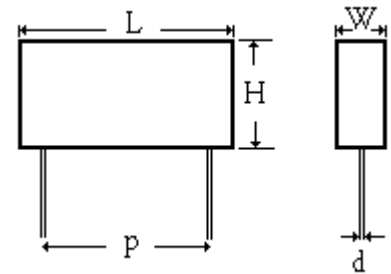
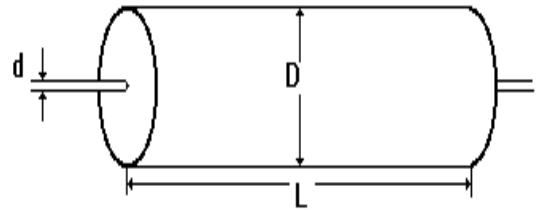
Rated Voltage : 250/275Vac; 50Hz
Capacitance Range : 0.01 μ F to 5.6 μ F
Tolerance : $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Tan Delta ($C < 1\mu F$) : 0.001 at 1 KHz
Insulation Resistance at 100Vdc : 5,000 Mohm x μF
15000Mohm max.
Test Voltage X2 : 4.3 times rated voltage
Pulse Rise Time : 40 to 100 V/ μ S
Impulse Voltage X2 : 2.5 KV as per IEC 384-14
(for rated voltage ≥ 250 Vac)

EMI SUPPRESSION CLASS X2

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



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

STYLES : MKP-4S / Y2 : Radial Lead

STANDARDS : IEC- 384-14

GENERAL TECHNICAL DATA

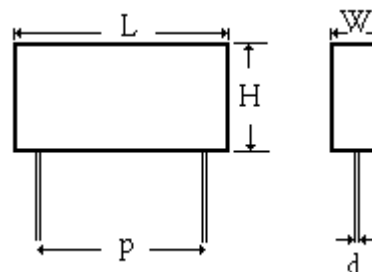
Dielectric : Metallised Polypropylene Film
Winding : Non-Inductive type
Leads : Tinned wire
Climatic Category : 40/85/21
Marking : Manufacturer's name, capacitance, tolerance, rated voltage, style code, manufacturing date code and batch no.
Temperature Range : -40°C to +85 °C

ELECTRICAL CHARACTERISTICS

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

Dimensions:

Type	Capacitance in μ F	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
Radial	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

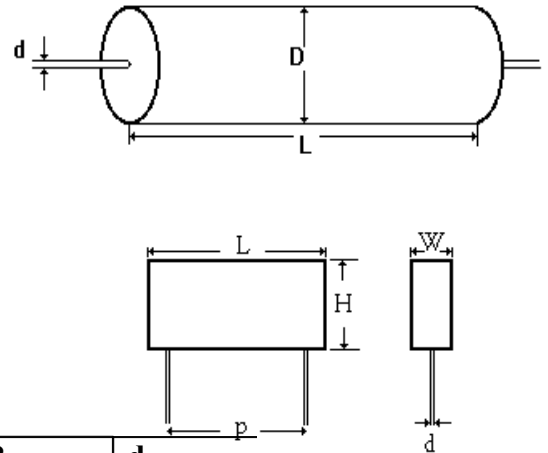
ELECTRICAL CHARACTERISTICS

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

INTERFERENCE SUPPRESSION CLASS X2 - 440Vac

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

ADVANCE Metallised Polypropylene Axial/Radial Capacitors

GENERAL :

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

APPLICATIONS :

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

STYLE :

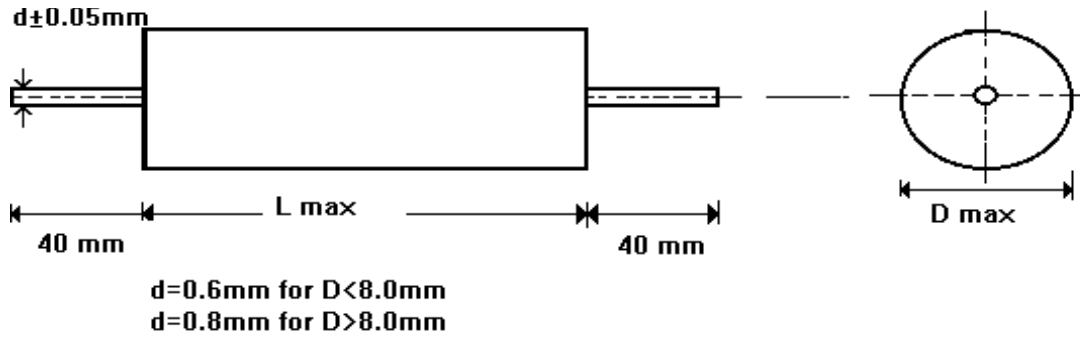
Type : MKP-5 : Cylindrical, Tape wrap, Axial Lead MKP-4 – Radial Box type

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
 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

METALLISED POLYPROPYLENE CAPACITORS – TYPE :MKP-5



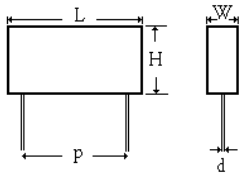
DIMENSIONS : (in mm)

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	-	-	-

Dissipation Factor v Temperature

Tan6 $\times 10^{-2}$

Dissipation Factor at 1 KHz %

TEMPERATURE DEG C

Temperature (°C)	Dissipation Factor (%)
-60	1.15
-40	1.25
-20	1.20
0	0.95
20	0.65
40	0.40
60	0.25
80	0.20
100	0.45

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

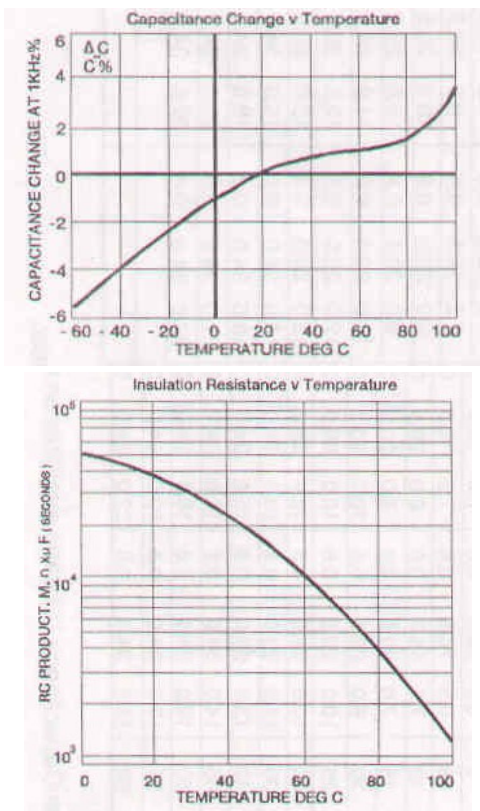
- Instrumentation
- Communications
- R-C Circuits
- Input to High Impedance Circuits
- Replacement for Paper Capacitors
- Meter Damping
- Filter, Bypass
- Computers, Switching

- **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 – MWOFF - Oval Shape, Tape Wrap, Axial Lead**
- **Type- MMMF – Miniature Rectangular, Radial lead, 5mm pitch**

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

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%



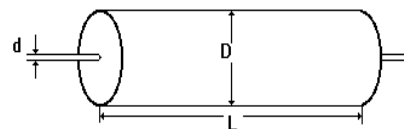
METALLISED POLYESTER CAPACITORS - JSS 50204 CPM 07

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

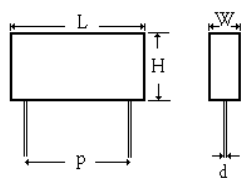


Voltage	WD / 63 VDC			WH / 100 VDC			WR / 160 VDC			WG / 250 VDC			WW/ 400 VDC			WK / 630 VDC			WX / 1000 VDC	
Value	D	L	d	D	L	d	D	L	d	D	L	d	D	L	d	D	L	d	D	L
0.0100	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	9.0	20.5
0.0150	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	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
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
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
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
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
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
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
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
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
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
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
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
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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Website: www.advance-capacitors.com

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

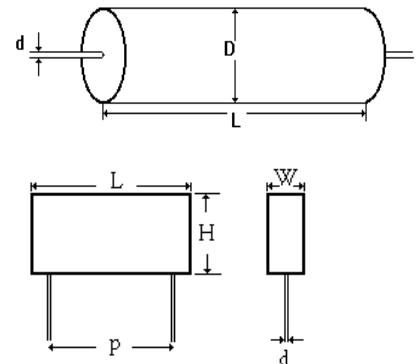
SPECIFICATIONS

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%

Axial Type (SMWF) :

Dimensions in mm

Voltage	63Vdc(SWD)			100Vdc (SWH)/ 160Vdc (SWR)			250Vdc (SWG)		
Value	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	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				
Value	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					

Advance High Precision Metallised Polypropylene Capacitors PS series

General Specifications:

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

Applications:

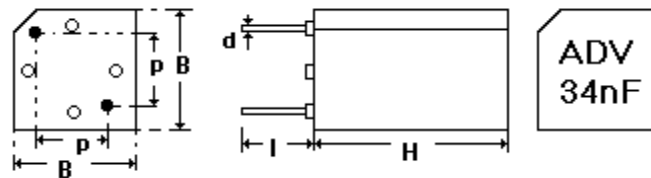
- ◆ High Reliability & Precision applications
- ◆ High Frequency Applications
- ◆ L-C Filters
- ◆ Timing Circuits
- ◆ Measuring Instruments
- ◆ Sample & Hold Circuits

Standards : IEC-384-16

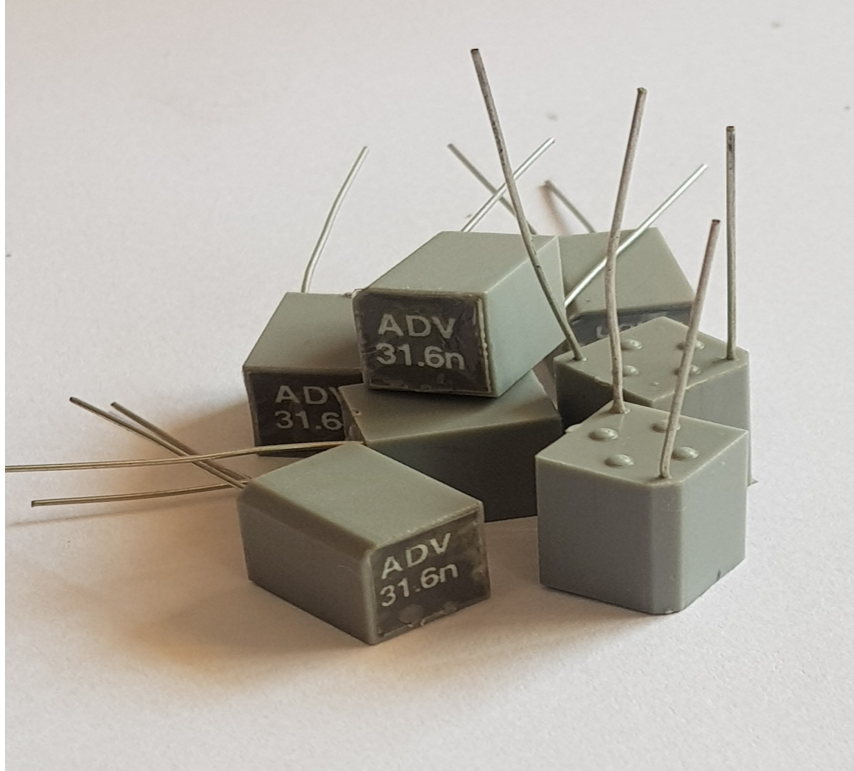
Technical Specifications :

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	: $-(200 \pm 100) \times 10^{-6} / ^\circ\text{C}$ 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 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



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Website: www.advance-capacitors.com

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

Registered Office and Factory:

Advance Components and Instruments Pvt Ltd

3A-3A/1, Belavadi Industrial Area ,Mysore – 570018 KARNATAKA

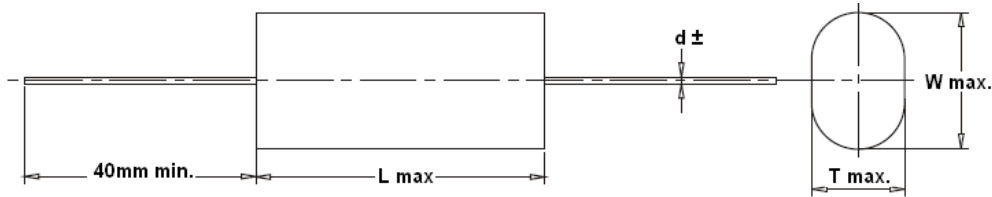
Phone: +91 821 2402301 / 2402307 / 2403058

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

Website: www.advance-capacitors.com

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
2.000								

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
2.000								

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

Rated Voltage 2000 Vdc / 630Vac

Capacitance	Tmax	W max	L max	d	dv/dt , V/ μ S	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, m Ω
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/ μ S	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, m Ω
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/ μ S	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, m Ω
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

ADVANCE CAPACITORS FOR HIGH-END AUDIO APPLICATIONS

MKP-5 series

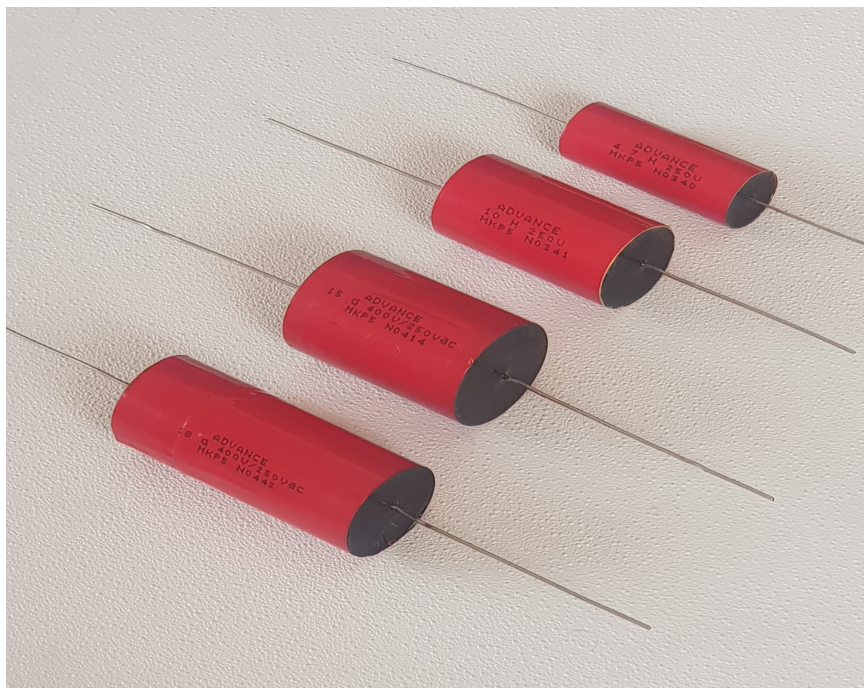
Advance Metallised Polypropylene Film capacitors (MKP-5 series) have excellent characteristics and are best suited for high quality Audiophile products such as power amplifiers and loudspeaker crossovers

General Specifications:

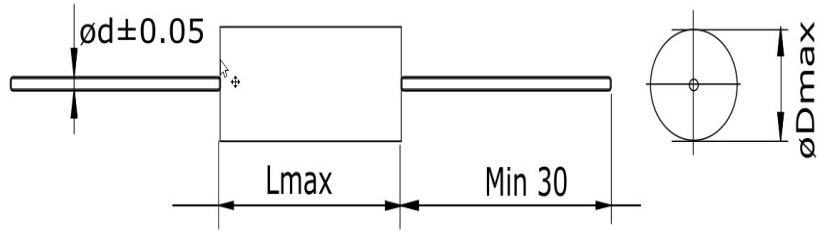
- ♦ Polypropylene as dielectric, low loss
- ♦ Dry type / partially oil impregnated
- ♦ Red/Blue/Yellow/White colour Polyester tape
- ♦ End filled with thermosetting resin
- ♦ Non-inductive, Non-polar
- ♦ Self-healing
- ♦ Tinned Copper wire terminals
- ♦ As per IEC 60384-16 standard

Technical Specifications:

Capacitance Range	: 0.1 μ F to 330 μ F		
Voltage Rating	: 250Vdc, 400Vdc & 630Vdc		
Tolerance	: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$		
Temperature range	: -55°C to $+100^{\circ}\text{C}$		
Test Voltage (10s)	: 1.6 times the rated DC voltage		
Dissipation factor (tan δ)	:	0.0005 for $C \leq 5\mu\text{F}$	0.0010 for $C \leq 10\mu\text{F}$
	:	0.0020 for $C \leq 100\mu\text{F}$	0.0040 for $C \leq 200\mu\text{F}$
	:	0.0050 for $C \leq 300\mu\text{F}$	
	:		



Dimensions in mm (not to scale):



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

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

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

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