



ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.

Manufacturers of PLASTIC FILM CAPACITORS

An ISO 9001:2015 & ISO 13485:2016 Company

CATALOGUES 2019



Registered Office and Factory:

3A-3A/1, Belavadi Industrial Area

Mysore – 570018

Karnataka

Phone: +91 821 2402301 / 2402307 /2403058

Mobile : +91 8073111025

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

Website: www.advance-capacitors.com



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AND INSTRUMENTS PVT. LTD.**
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ADVANCE IGBT SNUBBER CAPACITORS

GENERAL :

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

Snubbers are high peak current capacitors used in power semiconductor circuits for energy conversion and 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. Advance snubber capacitors offer high load capability with double sided metallization (type MKP) and /or film/foil metallization (FKP). Aluminium foil electrodes are used for high peak current capacities. Capacitor elements are non-inductive and encapsulated in a plastic box and potted with flame retardant epoxy resin for environmental protection.

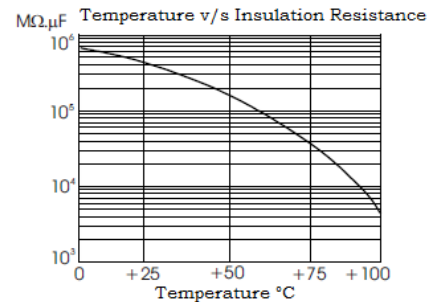
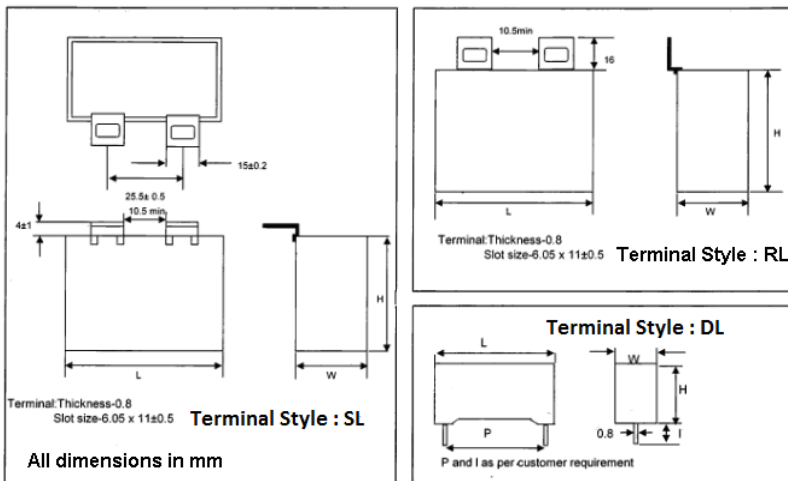
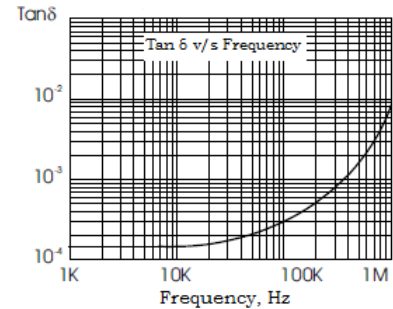
APPLICATIONS :

- ◆ IGBT module protection
- ◆ Thyristor protection
- ◆ High pulse applications

TYPE: FKP-6M IGBT Module direct mounting type

SPECIFICATIONS :

- Temperature Range : -55 °C to +100 °C
- Tan Delta : 0.0005 at 1 KHz
- Insulation Resistance : 5,000 M Ω * μ F
- Test Voltage T/T : 1.6 times rated dc voltage for 10 s
- T/C : 3 kVAC for 60 s
- Climatic Category : 40/85/56
- Tolerance : \pm 5%, \pm 10%, \pm 20%
- Terminals : Tinned Copper Lugs



Specifications:**Working voltage 1000 Vdc (480Vac at 50Hz)**

Capacitance in μF	I_{Peak} in A	I_{rms} in A	ESR max @ 10kHz in $\text{m}\Omega$	dv/dt $\text{V}/\mu\text{S}$	Case dimension in mm (W x H x L)	Terminal Style
0.10	120	5.6	11.2	2000	17*29*41.5	DL,RL,SL
0.15	180	5.7	10.8	2000	17*29*41.5	DL, RL, SL
0.22	264	6.8	4.0	2000	17*29*41.5	DL, RL, SL
0.33	330	19.7	3.7	2000	17*29*41.5	RL, SL
0.47	470	21.1	3.5	2000	24*38*48	RL, SL
0.68	612	21.3	3.2	1500	24*38*48	RL, SL
1.00	900	26	3.0	1500	24*38*48	RL, SL
2.00	1200	28.2	2.5	1500	30*45*45	RL,SL
2.20	1320	28.5	2.4	1500	30*45*45	RL,SL
3.00	1800	30	2.0	1500	43*50*54	RL,SL
3.30	1980	30	2.0	1500	43*50*54	RL,SL

Working voltage 1250 Vdc (550Vac at 50Hz)

Capacitance in μF	I_{Peak} in A	I_{rms} in A	ESR max @ 10kHz in $\text{m}\Omega$	dv/dt $\text{V}/\mu\text{S}$	Case dimension in mm (W x H x L)	Terminal Style
0.10	160	5.6	10.0	2000	17*29*41.5	DL,RL,SL
0.15	160	5.7	5.0	2000	17*29*41.5	DL, RL, SL
0.22	330	6.8	4.5	2000	17*29*41.5	DL, RL, SL
0.33	495	19.7	4.0	2000	17*29*41.5	RL, SL
0.47	705	21	3.8	2000	24*38*48	RL, SL
0.68	840	21	3.5	1500	24*38*48	RL, SL
1.00	1200	26	3.0	1500	30*45*45	RL, SL
1.5	1900	26	2.5	1500	30*45*45	RL,SL
2.00	2000	28	2.5	1500	43*50*54	RL,SL
3.00	2000	30	2.0	1500	43*50*54	RL,SL

Note: Other capacitance values and voltage ratings available on request

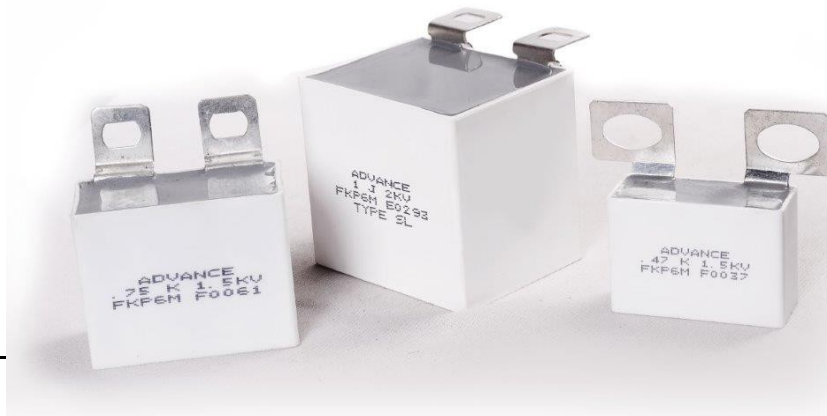
Specifications:

Working voltage 1500 Vdc (630Vac at 50Hz)

Capacitance in μF	I_{Peak} in A	I_{rms} in A	ESR max @ 10kHz in $\text{m}\Omega$	dv/dt $\text{V}/\mu\text{S}$	Case dimension in mm (W x H x L)	Terminal Style
0.10	160	5.6	10.0	2000	17*29*41.5	DL,RL,SL
0.15	160	5.7	5.0	2000	17*29*41.5	DL, RL, SL
0.22	330	6.8	4.5	2000	17*29*41.5	DL, RL, SL
0.33	495	19.7	4.0	2000	17*29*41.5	RL, SL
0.47	705	21	3.8	2000	24*38*48	RL, SL
0.68	840	21	3.5	1500	24*38*48	RL, SL
0.75	975	26	3.0	1500	24*38*48	RL, SL
1.00	1200	26	3.0	1500	30*45*45	RL, SL
1.50	1900	26	2.5	1500	43*50*54	RL,SL
2.00	2000	28	2.5	1500	43*50*54	RL,SL

Working voltage 2000 Vdc (750Vac at 50Hz)

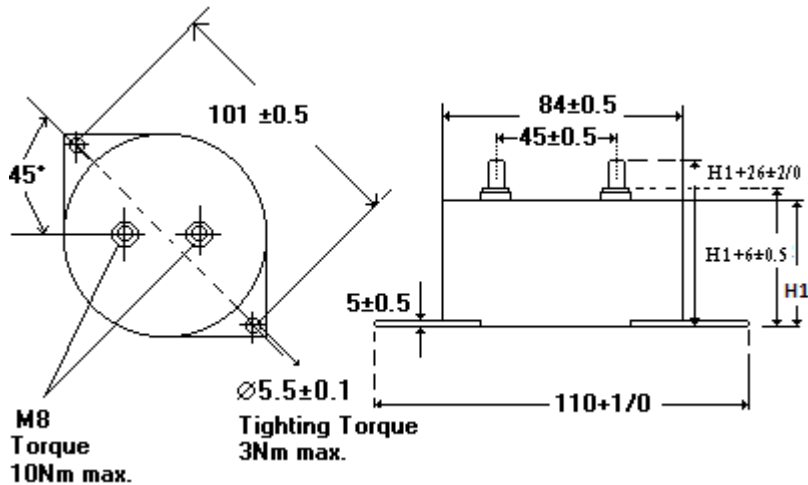
Capacitance in μF	I_{Peak} in A	I_{rms} in A	ESR max @ 10kHz in $\text{m}\Omega$	dv/dt $\text{V}/\mu\text{S}$	Case dimension in mm (W x H x L)	Terminal Style
0.10	150	8.0	8.4	2000	17*29*41.5	DL,RL,SL
0.15	250	10.0	7.0	2000	17*29*41.5	DL, RL, SL
0.22	330	21.0	4.5	2000	17*29*41.5	DL, RL, SL
0.33	495	22.0	4.1	2000	24*38*48	RL, SL
0.47	700	24.0	4.0	2000	30*45*45	RL, SL
0.68	950	26	3.7	2000	30*45*45	RL, SL
1.00	1300	26	3.2	2000	43*50*54	RL, SL
2.00	2000	28	3.0	2000	43*58*50	RL,SL



ADVANCE DC LINK Capacitors

Advance medium power film capacitors are specifically designed for DC filtering, low reactive power.

Dimensional Drawing (in mm)



Capacitance / Voltage (V _n)	H1 in mm	Capacitance / Voltage (V _n)	H1 in mm
100μF 500Vdc	40±1.0	66μF, 100μF 1000Vdc	64±1.0
150μF 500Vdc	51±1.0	75μF 1100Vdc	64±1.0
100μF 600Vdc	51±1.0	35μF 1200Vdc	51±1.0
200μF 500Vdc	64±1.0	50μF 1200Vdc	64±1.0
50μF, 60μF, 66μF, 70μF 800Vdc	40±1.0	18μF 1500Vdc	40±1.0
100μF 800Vdc	51±1.0	25μF 1500Vdc	51±1.0
50μF 1000Vdc	51±1.0	10μF 1800Vdc	40±1.0

Technical Details :

Tolerance	: ±10%
Dielectric	: Metallised Segmented Polypropylene film
Casing	: Plastic case (self-extinguishing FR grade, optional) filled with Thermosetting epoxy resin UL94V0
Terminals (2)	: Tin plated M8 Brass Screw Max. torque 10Nm
Test voltage between terminals(10s)	: 1.3* V _n dc
Insulation withstanding voltage between shorted terminals & body	: 4k V _{rms}
Temperature Range	: -40 °C to +85°C
Climatic Category	: 40/85/21
Marking	: ADVANCE Value, Tolerance Voltage, Current Part Code Mysore – India

Metallised Polypropylene AC/DC Power Capacitors

General:

Extensive range of Capacitance and Voltage ratings in a large variety of cases, terminals and mountings make ADVANCE Metallised Polypropylene Capacitors ideally suitable for most AC applications. The metallised electrodes allow self healing in operation. The excellent electrical properties of the polypropylene film and ADVANCE construction techniques allow higher ionisation inception voltage and a longer life. Non-inductively wound capacitor elements are housed in cases and sealed with epoxy resin, leading to a completely dry construction, eliminating damages due to leaky impregnants.

The capacitors are rated at 50Hz but may be operated at higher frequencies without exceeding the VA rating. The very low power factor of polypropylene matched by the connection techniques used, lead to capacitors with extremely low internal losses and a long life. This makes ADVANCE capacitors ideal for AC applications and as a replacement for paper capacitors.

APPLICATIONS :

Motor Start/Run	Fan motors
Air Conditioners	Fluorescent Lighting
Power Factor Correction	Elements for Power Factor Capacitors
Power Electronics	LC Filtering of Harmonics
Ferro Resonant Supplies	Uninterrupted Power Supplies
Constant Voltage Supplies	Energy Storage

STANDARDS

IS 1569, 1976	-	Capacitors for Fluorescent Lighting
IS 1709, 1960	-	Capacitors for Fan motors
IS 2993, 1975	-	Capacitors for Motors
IS 2834, 1981	-	Capacitors for Power Systems

Specifications (All measurements are made at 25°C):

Temperature Range	: -40 °C to +85 °C
Tan Delta	: <0.001 at 1 kHz
Insulation Resistance	: 10,000 Mohm* μ F
Test Voltage	: As per IS standards
Climatic Category	: 55/85/56
Tolerance	: \pm 5%, \pm 10%
Temperature Co-efficient	: -150 ppm/ °C

STYLES :

BP2 – 250Vac - suitable for Fluorescent Lighting applications

AP2 – 250Vac - suitable for Higher RMS Current and Dielectric Strength applications

BP4 – 415 / 440Vac – suitable for fans, motors, air conditioners etc.,

AP4 – 415 / 440Vac - suitable for Pulse, Higher RMS current and Dielectric Strength applications

Type : BP2 – 250Vac				Type : AP2 – 250Vac			
μF	Size in mm D x L (Can)		Connector / Mounting (optional)	μF	Size in mm D x L (Can) / WxLxH(Box)		Connector / Mounting (optional)
	Aluminium	Plastic			Aluminium	Plastic	
2.0	27*52	27*52	T / BS	2.0	27*52	27.52	T / BS
3.0	27*52	27*52	T / BS	3.0	30*52	30*52	T / BS
4.0	27*52	27*52	T/ BS	4.0	30*52	30*52	T/ BS
6.0	30*52	30*52	T / BS	6.0	35*55	35*55	T / BS
8.0	35*55	30*52	T / BS	8.0	45*55	38*55	T/ BS
10.0	35*55	35*52	T / BS	10.0	38*100	38*95	T / BS
20.0	38*100	38*95	T,S / BS	20.0	45*100	45*95	T,S / BS
25.0	45*100	40*94	T,S / BS	25.0	50*100	50*95	T,S / BS
30.0	45*100	45*94	T,S / BS	30.0	54*105	57*95	T,S / BS
35.0	50*100	50*95	T,S / BS	35.0	50*120	50*120	T,S / BS
40.0	50*100	50*95	T,S / BS	40.0	50*120	50*120	T,S / BS
45.0	54*105	57*95	T,S / BS	45.0		54*120	T,S / BS
50.0	54*105	57*95	T,S / BS	50.0		54*120	T,S / BS
60.0	63.5*110	57*95	T,S / BS	50.0	50*100*115		S / BS,C
				60.0	50*110*120		S / BS,C

Connectors : T – Solderable Tag type S – Screw Type
Mounting: S – Bottom Stud (Optional) C – Clamp Type (on rectangular Metal Boxes)



Type : BP4 – 415/440Vac	Type : AP4 – 415/440VAC
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μF	Size in mm		Connector / Mounting (optional)	μF	Size in mm		Connector / Mounting (optional)
	D x L(can) / WxLxH(Box)	Aluminium			Plastic	D x L(can) / WxLxH(Box)	
2.0	27*52	27*52	T/ BS	2.0	30*52	30*52	T/BS
3.0	30*52	30*52	T / BS	3.0	35*55	35*52	T / BS
4.0	30*52	30*52	T/ BS	4.0	35*55	35*52	T/ BS
6.0	35*55	35*55	T/ BS	6.0	45*55	38*95	T/ BS
8.0	45*55	38*55	T / BS	8.0	38*100	38*95	T/ BS
10.0	38*100	38*95	T / BS	10.0	45*100	45*95	T/BS
20.0	45*100	45*95	T,S / BS	20.0	54*105	57*95	T,S / BS
25.0	50*100	50*95	T,S / BS	25.0	63.5*110	57*95	T,S / BS
30.0	54*105	57*95	T,S / BS	25.0	50*80*97		S / BS,C
35.0	50*120	50*120	T,S / BS	30.0	50*100*115		S / BS,C
40.0	50*120	50*120	T,S / BS	36.0	50*100*115		S / BS,C
45.0		54*120	T,S / BS	40.0	50*100*115		S / BS,C
50.0		54*120	T,S / BS	45.0	50*125*135		S / BS,C
50.0	50*100*115		S / BS,C	50.0	50*125*135		S / BS,C
60.0	50*110*120		S / BS,C	60.0	50*125*135		S / BS.,C

Type – AP6 – 600Vac			Type-AP5 - 500Vac			
μF	Size in mm D*L(can) / W*L*H(box)	Connector / Mounting (optional)	μF	Size in mm D x L(Al. can)	Size in mm D x L(plastic can)	Connector / Mounting (optional)
0.5	38*60	T,S / BS	1.5	30*52	27*52	T,S / BS
1.0	38*100	T,S / BS	2.5	35*55	30*52	T,S / BS
2.0	38*100	T,S / BS	3.2	35*55	35*52	T,S / BS
3.0	38*100	T,S / BS	6.5	38*100	38*95	T,S / BS
4.0	38*100	T,S / BS	8.0	38*100	38*95	T,S / BS
5.0	45*100	T,S / BS	10.0	45*100	45*95	T,S / BS
6.0	50*100	T,S / BS	15.0	50*100	50*95	T,S / BS
10.0	63.5*110	T,S / BS	25.0	63.5*110	54*120	T,S / BS
15.0	50*100*115	S / BS,C	30.0	63.5*110	54*120	S / BS,C
20.0	50*125*135	S / BS,C	42.0	65*120		S / BS,C
25.0	50*125*135	S / BS,C				
30.0	50*135*145	S / BS,C				

Advance 250/275Vac EMI Supression 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

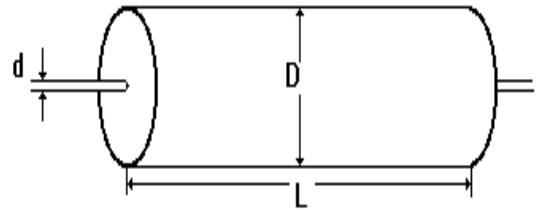
ELECTRICAL CHARACTERISTICS

Rated Voltage : 250/275Vac; 50Hz
Capacitance Range : 0.01 μ F to 5.6 μ F
Tolerance : \pm 1%, \pm 2%, \pm 5%, \pm 10%, \pm 20%
Tan Delta (C < 1 μ F) : 0.001 at 1 KHz
Insulation Resistance at 100Vdc : 5,000 Mohm x μ F
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 \geq 250Vac)

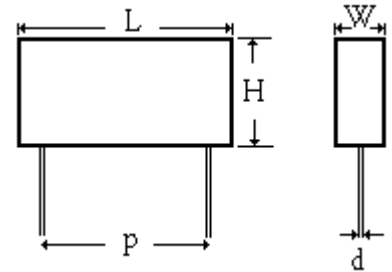
EMI SUPPRESSION CLASS X2

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	



250/275Vac 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 : 250/275Vac; 50Hz
Capacitance Range : 0.0022 μ F to 0.01 μ F
Tolerance : $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Tan Delta (C < 1 μ 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

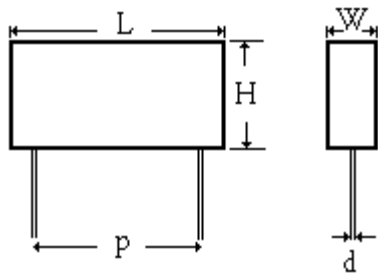
ADVANCE CAPACITORS

EMI SUPPRESSION CLASS Y2



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
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



440Vac EMI Supression 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

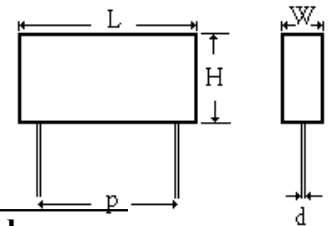
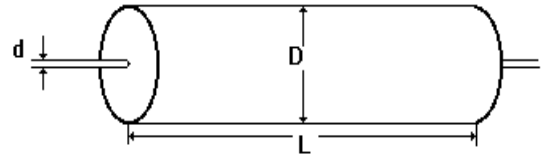
Rated Voltage : 415/440Vac; 50Hz
Capacitance Range : 0.022 μ F to 1.0 μ F
Tolerance : $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Tan Delta (C < 1 μ F) : 0.001 at 1 KHz
Insulation Resistance at 100Vdc : 5,000 M Ω * μ F
15000M Ω max.
DC Test Voltage X2 : 4.3 times rated ac voltage
Pulse Rise Time : 40 to 100 V/ μ S
Impulse Voltage X2 : ≤ 2.5 kV, as per IEC 384-14
(for rated voltage ≥ 250 Vac)

ADVANCE CAPACITORS

INTERFERENCE SUPPRESSION 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

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 :

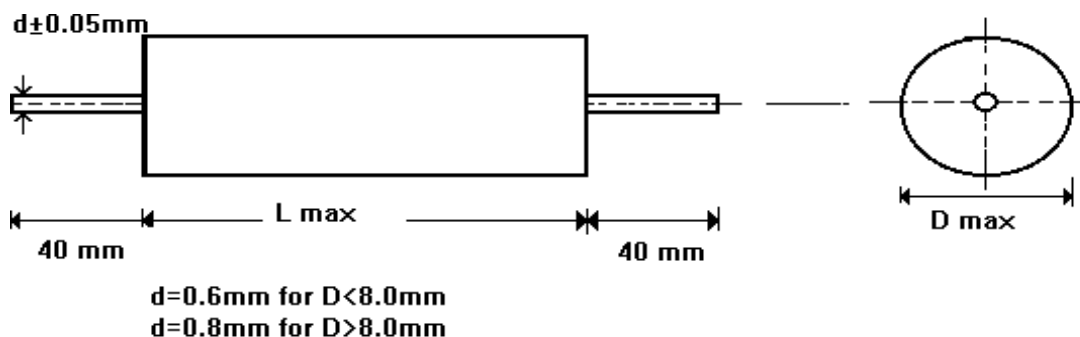
Type : MKP-5 : Cylindrical, Tape wrap, Axial Lead MKP-4 – Radial Box type

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

METALLISED POLYPROPYLENE CAPACITORS – TYPE :MKP-5



DIMENSIONS : (in mm)

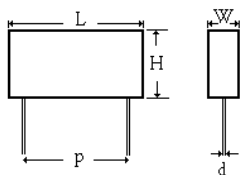
CAP μF	63 / 100 / 160 / 250 VDC		400VDC		630 VDC		1000 VDC	
	D	L	D	L	D	L	D	L
0.00047							6.0	11.5
0.00082							6.0	11.5
0.0010							6.0	11.5
0.0022							6.0	11.5
0.0033							6.0	11.5
0.0047							6.0	11.5
0.0068							6.0	11.5
0.0100			6.0	11.5	6.0	11.5	6.0	20.5
0.0150			6.0	11.5	6.0	11.5	6.5	20.5
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 Value	63V Case Size	100V Case Size	160V Case Size	250V Case Size	400V Case Size	630V Case Size	1000V 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 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

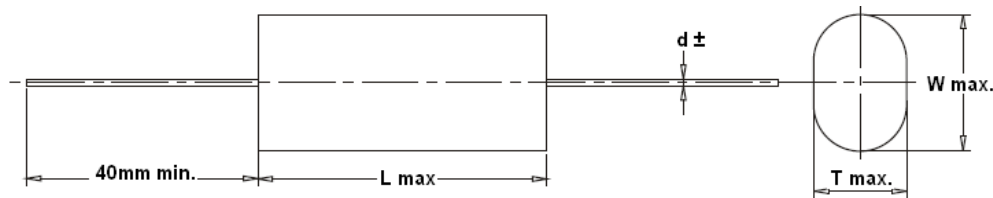
TYPE: FKP-7 Cylindrical, Tape wrap / wrap flat, Axial Lead

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

Advance Polypropylene Series Foil Snubber Capacitors – FKP-7



Rated Voltage 850Vdc / 450Vac

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

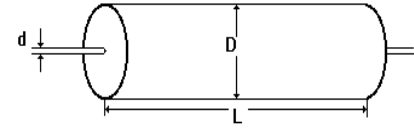
Capacitance	Tmax	W max	L max	d	dv/dt , V/ μ S	I Peak, A	Irms max at 100kHz , A	ESR @ 100kHz, m Ω
0.015	8.5	15.5	34.0	1.0	1500	22	3.0	35
0.022	9.2	16.0	34.0	1.0	1500	33	4.2	22
0.033	10.0	17.0	34.0	1.0	1500	49	6.1	12
0.047	12.0	19.0	34.0	1.0	1200	56	6.8	12
0.068	14.0	21.0	46.0	1.0	1200	81	7.9	10
0.100	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

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



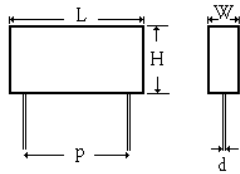
Dimensions (Max) in mm

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

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
A2	5.0	10.5	11.0	7.5	0.6	C6	7.5	18.5	13.5	15.2	0.6
A3	6.0	10.5	12.0	7.5	0.6	C7	8.0	18.0	15.0	15.2	0.8
B1	4.0	13.0	9.0	10.2	0.6	D2	8.5	26.5	17.0	22.5	0.8
B2	5.0	13.0	11.0	10.2	0.6	D3	10.0	26.5	18.5	22.5	0.8
B3	6.0	13.0	12.0	10.2	0.6	E1	11.0	32.0	20.0	27.5	0.8
B4	6.8	13.0	13.0	10.2	0.6	E2	15.5	32.0	24.5	27.5	0.8
C1	5.0	18.0	11.0	15.2	0.6	F1	17.0	41.5	29.0	37.5	0.8
C2	5.5	18.0	11.0	15.2	0.6	F2	14.0	44.0	24.0	37.5	0.8
C3	6.0	18.0	12.0	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
0.0100	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

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

MF U1032

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	A2
0.0220	A1	A1	A1	A1	A2	
0.0330	A1	A1	A1	A2	A2	
0.0470	A1	A1	A1	A2		
0.0680	A1	A1	A1	A2		
0.1000	A1	A1	A2	A3		
0.1500	A1	A1	A2			
0.2200	A2	A2	A2			
0.3300	A3	A3				
0.4700	A3	A3				
0.68	A3					

5mm pitch Type: MMMF	
Capacitance / Voltage	Dimensions W x L x H in mm
0.01 μF / 63V	2.5 x 7.12 x 6.5 P=5.0, l=0.6
0.1 μF / 100V	2.36 x 7 x 6.12 P=5.0, l=0.5
0.22 μF / 63V	2.36 x 7 x 6.12 P=5.0, l=0.5
0.47 μF / 63V	2.36 x 7 x 6.12 P=5.0, l=0.5
1 μF / 63V	4.32 x 7 x 9 P=5.0, l=0.5

Note: Please refer to page 3 for Case sizes

ADVANCE CAPACITORS-METALLISED POLYPHENYLENE (PPS)

GENERAL :

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

APPLICATIONS :

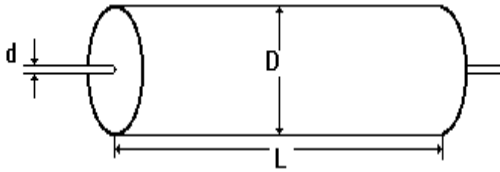
- ◆ Timers
- ◆ Automotive Applications
- ◆ High Ambient Temperature Applications
- ◆ High Stability

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

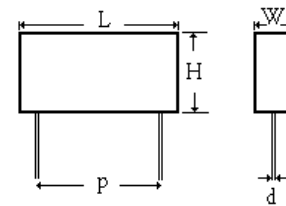
ADVANCE CAPACITORS-METALLISED POLYPHENYLENE SULPHIDE (PPS)



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			



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
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					

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

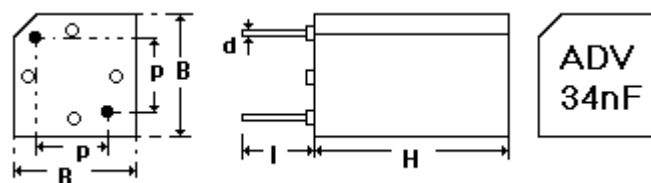
- ◆ Requiring Precision Capacitors ◆ Timing Circuits ◆ High Frequency Applications
- ◆ Measuring Instruments ◆ L-C Filters
- ◆ Telephone Systems ◆ Sample & Hold Circuits

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