



ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD.

Manufacturers of PLASTIC FILM CAPACITORS

An ISO 9001:2015 & ISO 13485:2016 Company

CATALOGUES 2021



Registered Office and Factory:

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POWER FILM CAPACITORS

List of Catalogues:	Page No.
1. Advance IGBT snubber capacitors	3
2. Advance Dual IGBT snubber Capacitors	7
3. Advance DC Link Capacitors	9
4. Advance Conduction Cooled Capacitors	16
5. Advance AC/DC Power Capacitors	17
6. Advance Feedthrough Capacitors	21
7. Advance Interference Suppression devices for Auto Electronics	22
8. Advance High voltage and High current capacitors	23
9. Advance Metallised Series foil snubber capacitors	24

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FKP-6M series 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 epoxy resin for environmental protection.

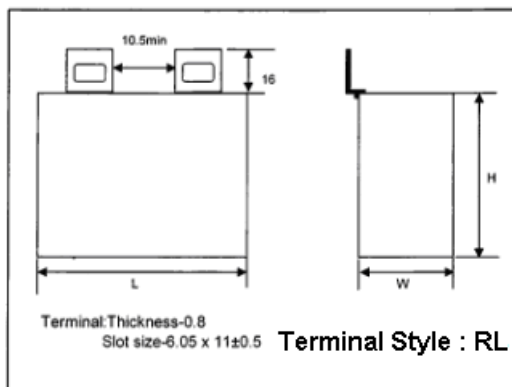
APPLICATIONS :

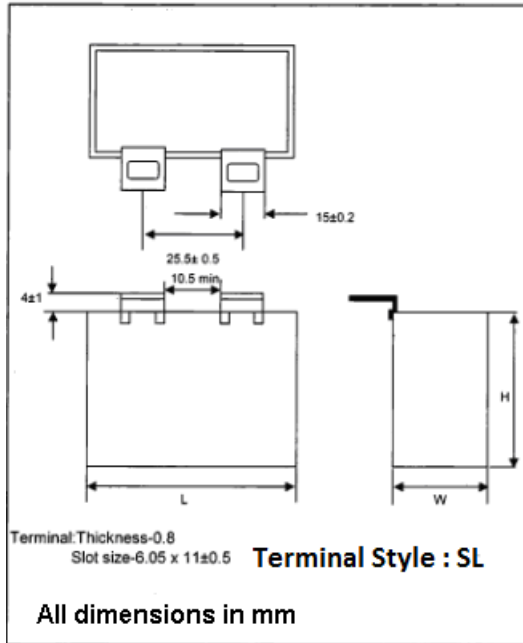
- ◆ IGBT module protection
- ◆ Thyristor protection
- ◆ High pulse applications

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	RL,SL
0.15	180	5.7	10.8	2000	17*29*41.5	RL, SL
0.22	264	6.8	4.0	2000	17*29*41.5	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	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	RL,SL
0.15	160	5.7	5.0	2000	17*29*41.5	RL, SL
0.22	330	6.8	4.5	2000	17*29*41.5	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

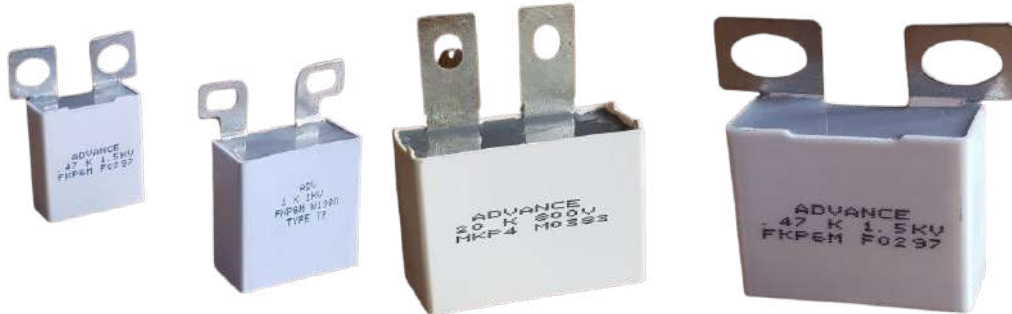
Working voltage 1500 Vdc (630Vac at 50Hz)

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	RL,SL
0.15	160	5.7	5.0	2000	17*29*41.5	RL, SL
0.22	330	6.8	4.5	2000	17*29*41.5	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
3.0	2000	30	2.5	1500	43*58*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	RL,SL
0.15	250	10.0	7.0	2000	17*29*41.5	RL, SL
0.22	330	21.0	4.5	2000	17*29*41.5	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

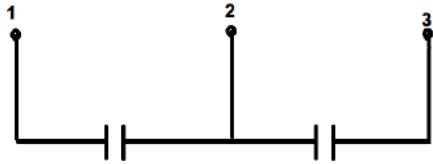
Other types:



- Note: 1.Other capacitance values and voltage ratings available on request**
2. Custom designed clips available on request
-

DZS series Dual IGBT Snubber capacitors

Internal connection- Capacitors in series



General Details

- ◆ Polypropylene Dielectric , Low Loss
- ◆ Self- Healing
- ◆ Flame Retardant UL94V0, RoHS compliant Housing
- ◆ Series Construction , high dv /dt rating
- ◆ Filled with thermosetting Resin / PU resin
- ◆ Snubber / Thyristor Protection
- ◆ High Pulse Applications
- ◆ Low ESR
- ◆ Voltage Ratings upto 2500Vdc
- ◆ Tolerance $\pm 5\%$, $\pm 10\%$

Specifications:

Temperature Range: -55°C to $+100^{\circ}\text{C}$

Insulation Resistance : $5000 \text{ M}\Omega * \mu\text{F}$

Test voltage between terminals: $1.5 \times$ rated DC voltage for 10S

Test voltage between terminals & case: 3Kvac , 50Hz for 10S

Climatic Category : 40/85/56

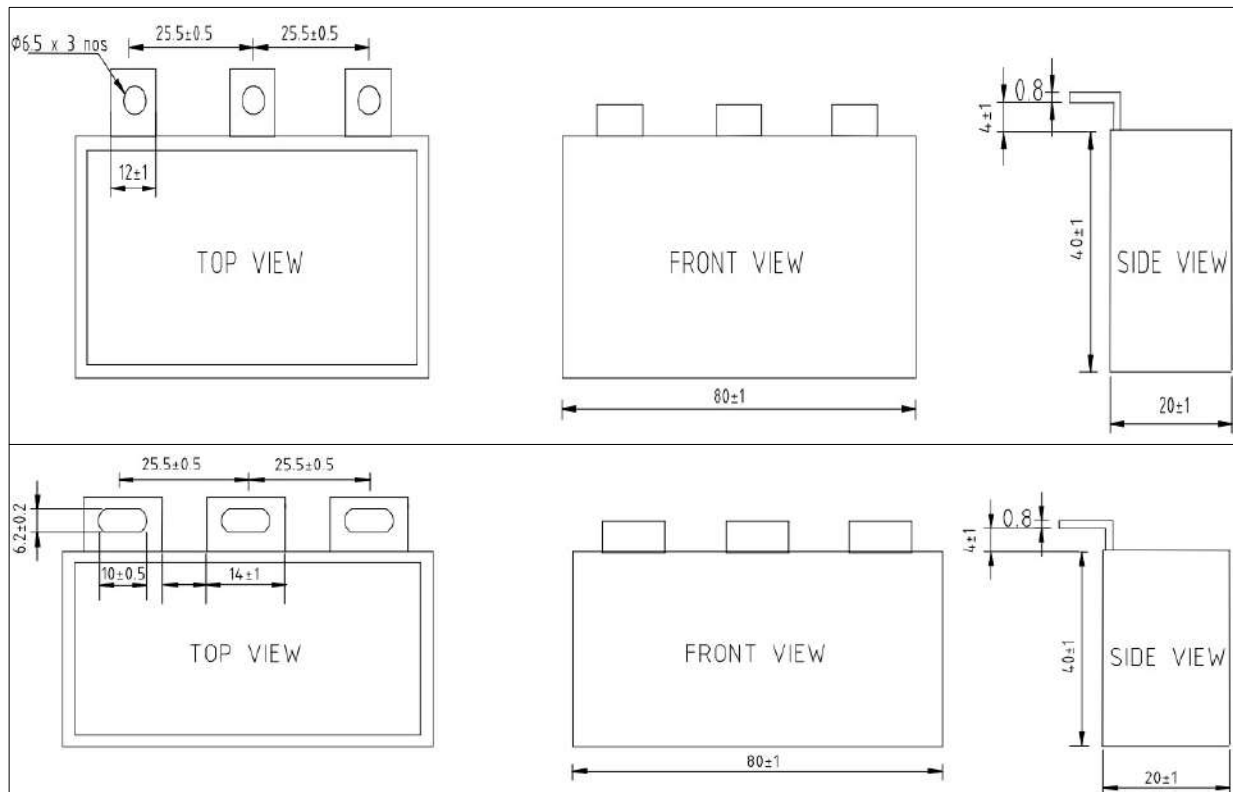
Terminals : Tinned Copper Clips

Capacitance	Rated Voltage		Max. Current @100kHz, 70°C	dv/dt rating	Peak Current				Terminal Style
	Vdc	Vac 50Hz							
$0.10 + 0.10$	2500	750	15	1000	100	20	80	40	SL/RL
$0.22 + 0.22$	2000	600	17	1000	200	20	80	40	SL/RL
$0.33 + 0.33$	2000	600	18	1000	330	20	80	40	SL/RL
$0.47 + 0.47$	1500	500	19	1000	470	20	80	40	SL/RL
$0.68 + 0.68$	1200	400	20	1000	680	20	80	40	SL/RL
$1.00 + 1.00$	1000	350	20	1000	1000	20	80	40	SL/RL
$1.20 + 1.20$	1000	350	22	1000	1200	20	80	40	SL/RL
$1.70 + 1.70$	700	250	24	1000	1740	20	80	40	SL/RL
$2.00 + 2.00$	600	200	25	1000	2000	20	80	40	SL/RL

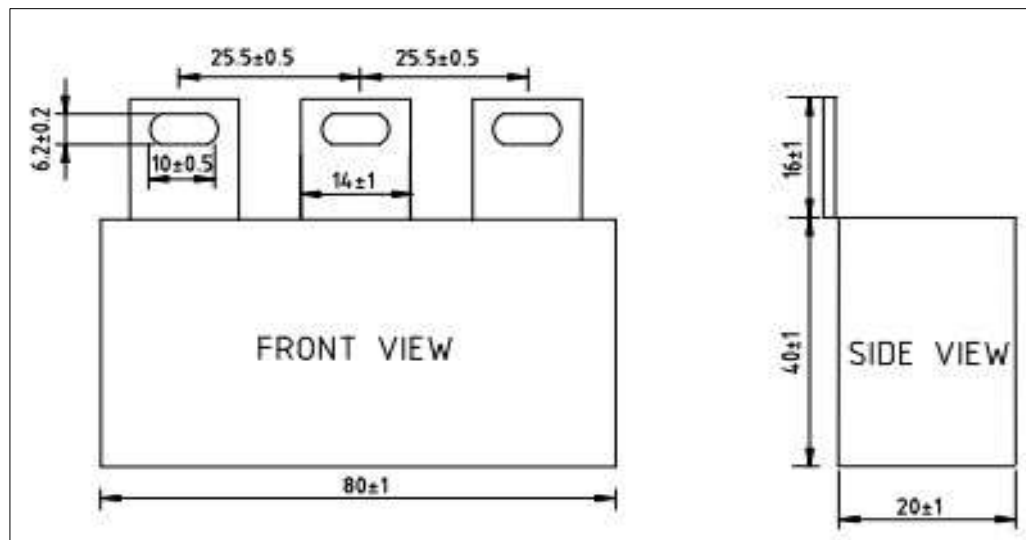
Note: Other capacitance & current rating , terminals pitch, custom made capacitors available on request

DZS series Dual IGBT Snubber capacitors

SL type



RL type:




ADVANCE DC LINK CAPACITORS

ADC-CP Series

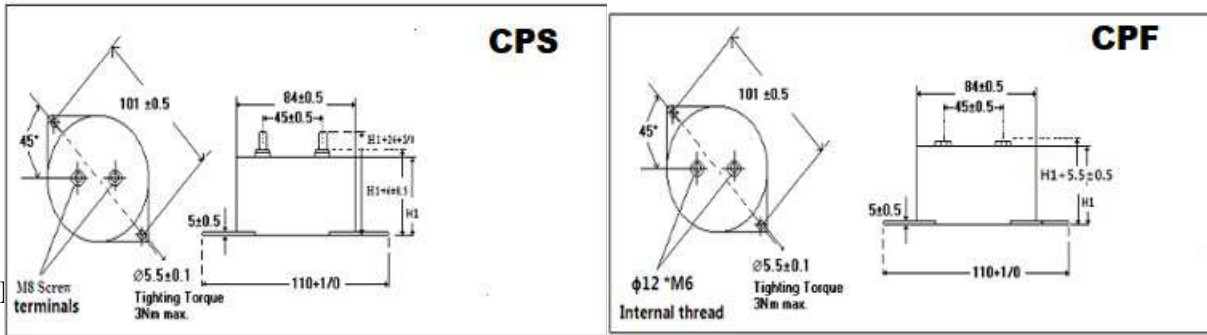
Advance medium power film capacitors are specifically designed for DC filtering and low reactive power applications

TECHNICAL DETAILS:

Capacitance Range	: 20 μ F to 200 μ F	
Rated Voltage range (Vn)	: 500Vdc to 1000Vdc	
Tolerance	: $\pm 5\%$, $\pm 10\%$	
Irms Max	: 100A	
Dielectric	: Metallised Polypropylene Film	
Casing	: Plastic case with mounting clamp & 2 holes (self-extinguishing FR grade, optional) filled with thermosetting epoxy resin UL94V0	
Terminals (2)	: Nickel / Tin Plated M8 Brass Screw terminals with Bush -Max Torque-10Nm	
Test voltage between terminals(10s)	: $1.3 \times V_{nDC}$	
Insulation withstanding voltage between shorted terminals & body	: $4kV_{rms}$, 50Hz	
ESR	: As low as 0.7m Ω	
Temperature Range	: -40°C to +85°C	
Climatic Category	: 40/85/21	
Standard reference	: IEC 61071	
RoHS Compliance	: Yes	
Protection	: Protected / Unprotected	

Marking :

ADVANCE
ADC-CPx
Value, Tolerance
Voltage, Current
Part Code
Mysore – India



Standard Capacitor Range :

Rated DC Voltage	Capacitance @ 1kHz	Case Size in mm D X H1 (±1)
500	100 µF	84 x 51
	150 µF	84 x 51
	200 µF	84 x 64
600	100 µF	84 x 51
800	20 µF	84 x 40
	50 µF	84 x 40
	60 µF	84 x 40
	66 µF	84 x 40
	70 µF	84 x 40
	100 µF	84 x 51
1000	50 µF	84 x 51
	66 µF	84 x 64
	100 µF	84 x 64
1100	75 µF	84 x 64
1200	35 µF	84 x 51
	50 µF	84 x 64
1500	25 µF	84 x 51
1800	10 µF	84 x 40
1800	18µF	84 x 40

Note: Other Capacitance value and voltage ratings available are on request

ADVANCE DC LINK CAPACITORS

ADC-CA Series

Advance DC link film capacitors are designed for UPS, Induction Heating, Wind and Solar Inverter applications.

TECHNICAL DETAILS:

Capacitance Range	: 140 μ F to 700 μ F
Rated Voltage range	: Upto 1320 Vdc
Tolerance	: \pm 5%, \pm 10%
Dielectric	: Metallised Polypropylene Film
Casing	: Aluminium case with M12 bottom stud (Max Torque-12Nm) filled with thermosetting epoxy resin UL94V0
Terminals (2)	: Type CAF- Nickel / Tin Plated M6 Brass Internal thread -Max Torque-8Nm OR Type CAS -Nickel Plated Brass Screw terminals with Ceramic Bush - Max Torque -10Nm
Test voltage between terminals(10s)	: 1.3 x Vn DC
Insulation withstanding voltage between shorted terminals & case (60S)	: 2.5kVac, 50Hz
ESR	: As low as 0.7m Ω
Temperature Range	: -40°C to +85°C
Climatic Category	: 55/60/56
Standard reference	: IEC 61071
RoHS Compliance	: Yes
Protection	: Protected / Unprotected

Marking :

<p>ADVANCE ADC-CAx Value , Tolerance Voltage , Current Batch No / Date Mysore – India DISCHARGE BEFORE HANDLING</p>

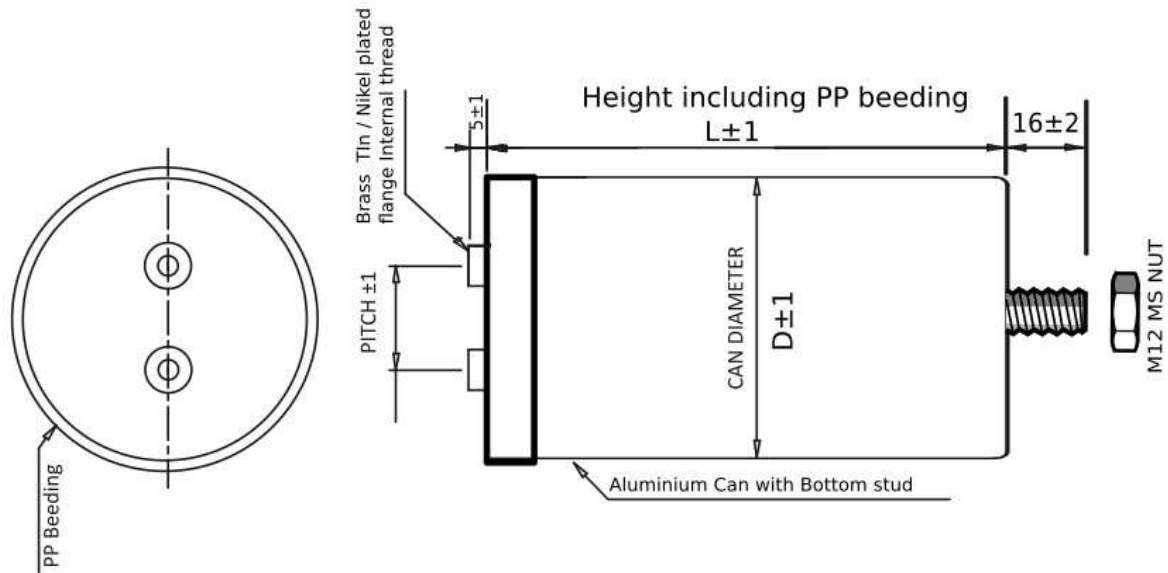


Standard Capacitor Range:

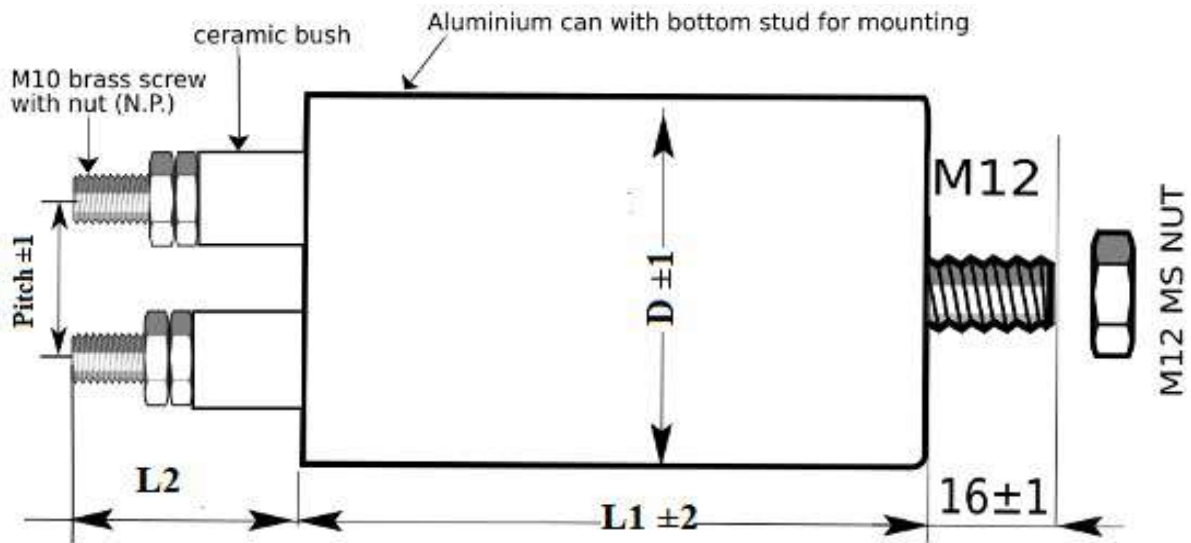
Rated DC voltage VDC	Capacitance @ 1kHz	Current Max A	Case Dimensions (mm) D x L1	Case Dimensions (mm) D x L1
			ADC-CAF	ADC-CAS
900	300 μ F	40	100 x 133	100 x 130
	360 μ F	40	116 x 133	116 x 130
	400 μ F	40	116 x 133	116 x 130
	430 μ F	40	116 x 133	116 x 130
	475 μ F	60	136 x 133	136 x 130
	495 μ F	60	136 x 133	136 x 130
	540 μ F	60	136 x 133	136 x 130
	630 μ F	60	136 x 133	136 x 130
	610 μ F	60	136 x 133	136 x 130
	700 μ F	60	136 x 188	136 x 185
1320	140 μ F	25	116 x 98	116 x 95
	180 μ F	30	116 x 98	116 x 95
	200 μ F	40	116 x 98	116 x 95
	260 μ F	45	116 x 98	116 x 95
	290 μ F	50	116 x 98	116 x 95
	310 μ F	52	116 x 98	116 x 95
	330 μ F	55	136 x 95	136 x 95
	360 μ F	58	116 x 183	116 x 180
	390 μ F	62	116 x 183	116 x 180
	400 μ F	65	116 x 183	116 x 180
	440 μ F	70	116 x 183	116 x 180
	480 μ F	72	116 x 183	116 x 180
	560 μ F	75	136 x 183	136 x 180
	590 μ F	80	136 x 183	136 x 180
630 μ F	90	136 x 183	136 x 180	

TYPE 1 ADC-CAF

Standard available Pitch = 35 & 50 mm



TYPE 2 ADC-CAS



Standard available Pitch = 35 & 50 mm

Dimensional Drawing: All Dimensions are in mm , Not to scale

Note: Other Capacitance value and voltage ratings available are on request

ADVANCE DC LINK CAPACITORS

ADC-RP Series

Advance DC link through-hole capacitors suitable for battery chargers, UPS, driver circuits and Solar inverters.

TECHNICAL DETAILS:

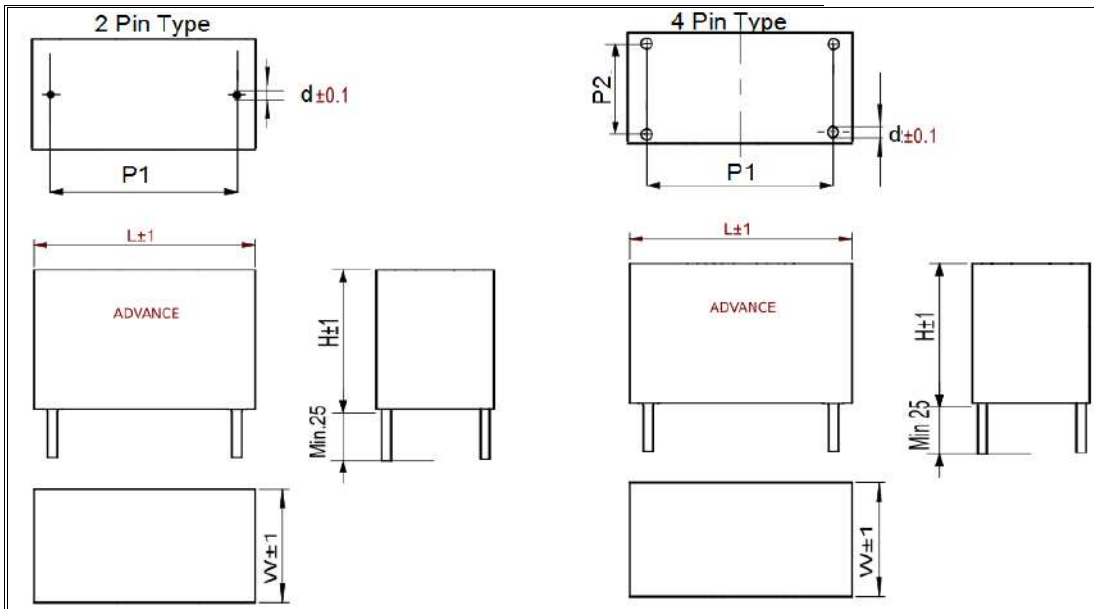
Capacitance Range	: 4.7 μ F to 60 μ F
Rated Voltage range	: 400Vdc to 1100Vdc
Tolerance	: \pm 5% / \pm 10%
Dielectric	: Metallised Polypropylene Film
Casing	: Plastic case with (self-extinguishing FR grade, optional) filled with thermosetting epoxy resin UL94V0
Terminals	: Tin Plated Copper Lead of 0.8 / 1.0 / 1.2mm Dia -2 Pins OR 4 pins configuration available
Test voltage between terminals(10s)	: 1.3 x Vn DC
ESR	: As low as 10m Ω
Temperature Range	: -40°C to +85°C
Climatic Category	: 40/85/21
Standard reference	: IEC 61071
RoHS Compliance	: Available
Protection	: Protected / Unprotected



Dimensional Drawing: Dimensions (in mm) Not to Scale

ADC-RP2

ADC-RP4



Lead dia , d = 0.8 / 1.0 / 1.2 mm lead , Custom Pitch can be made as per requirements.

Standard Capacitor Range :

Rated DC Voltage	Capacitance @ 1kHz	Case Size in mm W x L X H (± 1)
400	4.7 μ F	17 x 42 x 19
500	10 μ F	19 x 43.5 x 36
	15 μ F	19 x 43.5 x 36
	20 μ F	35.5 x 57 x 50
	30 μ F	35.5 x 57 x 50
	50 μ F	35.5 x 57 x 50
	60 μ F	35.5 x 57 x 50
800	10 μ F	19 x 43.5 x 36
	15 μ F	19 x 43.5 x 36
	20 μ F	35.5 x 57 x 50
	30 μ F	35.5 x 57 x 50
	50 μ F	35.5 x 57 x 50
	60 μ F	35.5 x 57 x 50
1100	10 μ F	30 x 44 x 44

Note: Other Capacitance value and voltage ratings available are on request

Marking

**ADVANCE
ADC-RPx
Value, Tolerance
Voltage, Current
Batch No/Date**

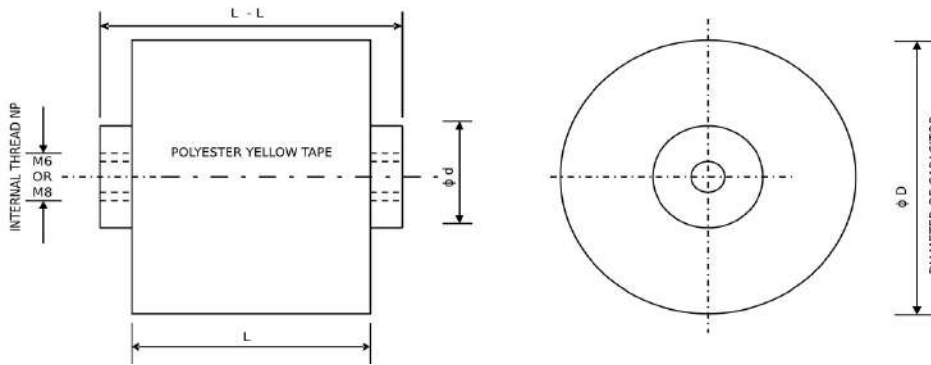
ADVANCE DC LINK CAPACITORS

ADC-AR Series

Advance DC link Axial mounting type Capacitors suitable for Welding and Solar inverters.

Technical Specifications:

Capacitance	: 5 μ F to 400 μ F
Rated Voltage	: 400Vdc to 800Vdc
Tolerance	: \pm 5%, \pm 10%
Dielectric	: Metallised Polypropylene Film
Casing	: Axial round with Yellow wrap tape
Terminals	: Brass/Copper Flange with internal threading
Temperature Range	: -40°C to +85°C
Climatic Category	: 40/85/56



Marking

ADVANCE
ADC-AR
Value, Tolerance
Voltage, Current
Batch No / Date

CC-3 series Conduction Cooled Capacitors

General:

- ◆ Polypropylene Dielectric ◆ Conduction Cooled ◆ Non-polar
- ◆ Self Healing ◆ RoHS Compliant available ◆ Flame retardant UL94V0

Applications:

- ◆ Induction heating ◆ Medical Electronics ◆ Resonant Circuits

Specifications:

Capacitance range	: 3 μ F to 85 μ F
Tolerance	: \pm 10%
Rated Voltage	: up to 1000Vrms
Current rating	: up to 1400Arms
Temperature Range	: -40°C to +85°C
Test voltage between terminals	: 1.2 x Vrms, 50Hz
Insulation Resistance	: \geq 5000s (μ F x M Ω)



Standard Capacitor Range:

Capacitance	Rated RMS Voltage	Peak Voltage	Max. Current	Max. Power	Working Frequency	Dimensions in mm	
						D \pm 2	H \pm 1
μ F @1KHz	Vrms	Vpk	Irms, A	kvar	Range in KHz		
3	1000	1410	700	700	30 to 35	130	52
5	1000	1410	700	700	20 to 29	130	52
9	900	1272.6	800	700	15.3 to 20	130	52
12	850	1201.9	800	700	12.9 to 19	130	52
14	850	1201.9	800	700	11 to 16	130	52
19	800	1131.2	900	700	9.2 to 12	130	52
25	700	989.8	1000	700	9 to 10.2	130	52
30	700	989.8	1000	700	8 to 10	130	52
46	600	848.4	1100	700	6.7 to 7.1	130	52
63	600	848.4	1100	700	4.5 to 5.3	130	52
80	500	707	1400	700	5.6	130	52
85	500	707	1400	700	5.2	130	52

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			
μF	Size in mm D x L(can) / WxLxH(Box)		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	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	Size in mm	Connector / Mounting (optional)
				D x L(Al. can)	D x L(plastic can)	
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 FEEDTHROUGH CAPACITORS

Feed through capacitors are used to reduce the unwanted RFI/EMI noise from entering and leaving the equipment. This is done by connecting a low impedance lead-less capacitor to the ground. The feed through capacitors have a center conductor that carries the rated current and a concentrically designed capacitor section that attains an ultimate reduction in lead inductance providing a truly broadband noise suppression.



- * Capacitance 0.1 μ F to 10 μ F
- * Voltage range 63V – 400Vdc , upto 440Vac 400Hz
- * Current ratings 1A to 500A
- * High frequency suppression upto 2GHz
- * Reference standards JSS 50123
- * Temperature range - -55°C to +125°C, -55°C to +85°C
- * Mounting – Bulkhead or Panel
- * Ideal for Telecom and Defence applications
- * Custom design capability
- * Volume scalability

ADVANCE Interference Suppression devices for Auto Electronics

Application: Used to eliminate Interference generate due to rapid voltage/current fluctuations in Alternator and Wiper motors

Technical Details:

Dielectric	: Metallised Polyester film (Polyethylene Terephthalate)
Electrodes	: Vaccum deposited Aluminium
Casing	: GF Nylon cans filled with epoxy resin
Terminals	: Lug, Clips, Wire - as per drawings
Capacitance	: 0.5 μ F to 2.2 μ F, 2x1 μ F, 2x2.2 μ F or as per customer specification
Tolerance	: \pm 20% , \pm 10%
Rated Voltage	: 50Vdc to 250Vdc
Temperature Range	:-55°C to +125°C
Dissipation factor(tan delta)	:<=0.008 (typical 0.006)
Climate Category	:55/125/56
Test Voltage	: 1.6 times x Rated Voltage for 1 min.
Standards	: IEC-384-2
Insulation Resistance(100V)	:



Advance High Voltage and High Current Capacitors

Advance high voltage and high current capacitors are designed for wide range of applications such as Induction heating (tank circuits), Energy storage, Filtering, bypass and coupling. These capacitors non-inductive, self-healing and are available either in dry type or partially oil impregnated construction type.

Specifications:

Capacitance	: 0.01 μ F to 10 μ F
Rated Voltage	: 1000Vdc to 40KVdc
Tolerance	: \pm 5%, \pm 10%
Rated current	: 10A to 1000A
Operating frequency	: up to 50KHz
Case	: Fibre Glass tube (for Axial terminations), Metal box (for Radial terminations) filled with thermosetting epoxy resin
Terminals	: Screw with Bush or Flange with Internal threading
Dielectric	: Metallised Polypropylene film and Aluminium Foil
Temperature range	: -40°C to +85°C



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

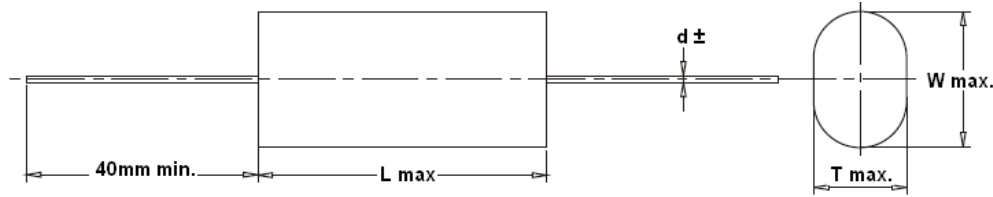
TYPE: FKP-7 Cylindrical, Tape wrap / wrap flat, Axial Lead

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