ADVANCE COMPONENTS
AND INSTRUMENTS PVT. LTD.
Mfrs. of PLASTIC FILM CAPACITORS & EMI NOISE FILTERS
Registered Office & Factory :
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Phone : +91 821 2402307, 2402301
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advcaps@gmail.com
Website : www.advance-capacitors.com
An ISO 9001 & ISO 13485 Company
GSTIN : 29AABCA1720D1ZA

ADVANCE DC LINK CAPACITORS

ADC-CPF-4 Series

ADC-CPF-4 series is a brand new capacitors in the DC Link Product range. These capacitors are designed for latest models of Inverters with unique 4 terminal design to ensure low inductance . Integrated mounting clamp technology with 4 mounting holes are designed to withstand high shock and vibrations.

TECHNICAL DETAILS:

Capacitance Range : 30µF to 1600µF
Rated Voltage range: 500Vdc to 2400Vdc
Tolerance : ±5% , ±10%
Max RMS current : 410A
Dielectric : Metallised Polypropylene Film
Casing : FR grade PBT housing with integrated mounting clamp end filled with thermosetting epoxy resin UL94V0
Terminals (4) : Nickel / Tin Plated Brass Flange with internal threading
ESR , typical : < 2mΩ
ESL, typical : < 10 nH
Temperature Range : -40°C to +105°C
Standard reference : IEC 61071

Marking :

ADVANCE
ADC-CPF-4
Value, Tolerance
Voltage, Current
Part Code
Mysore – India

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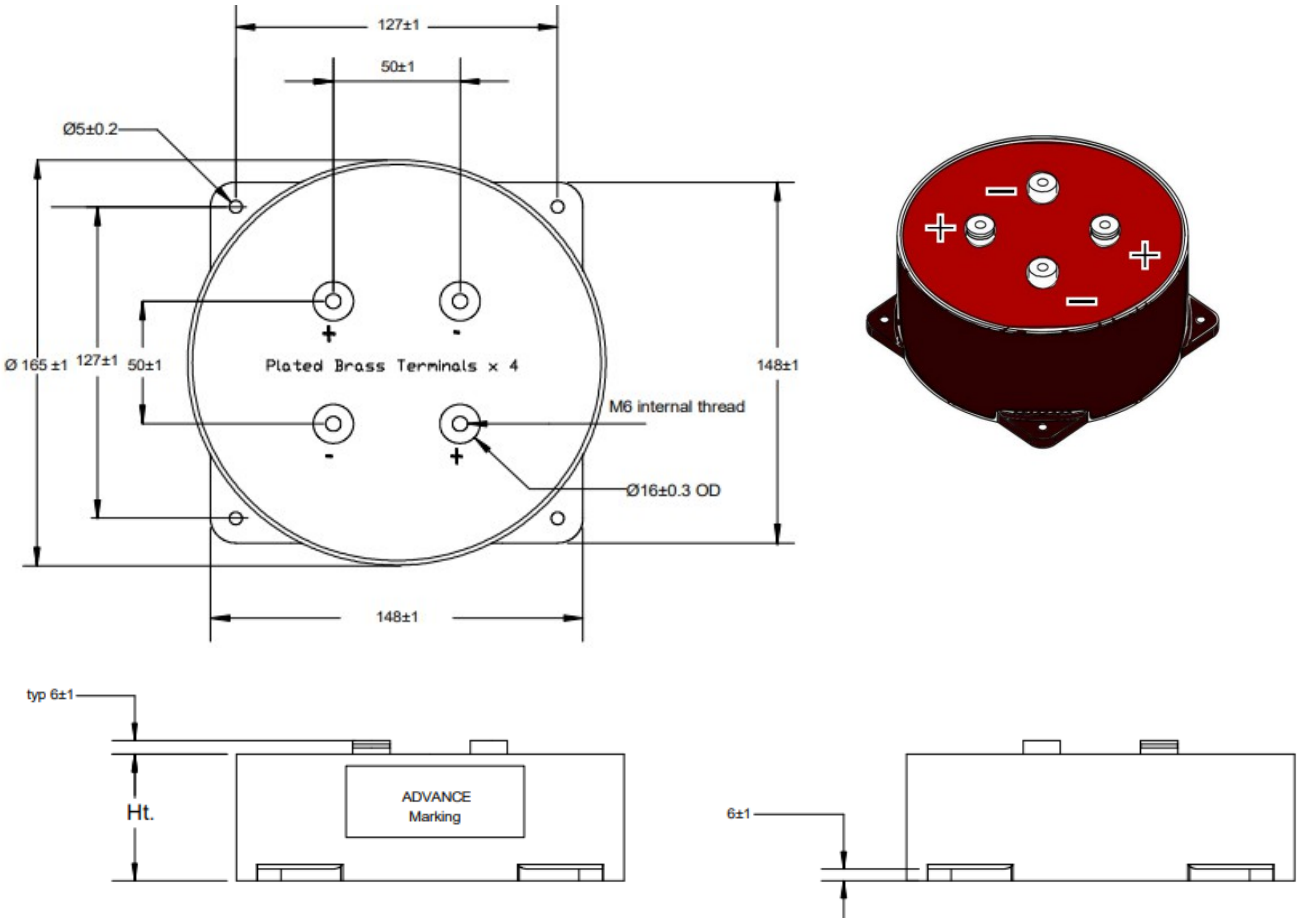
Dimensional Drawing in mm (not to scale)

ADC-CPF- 4



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Standard Capacitor Range

RATED	CAP	H	dv/dt	Ipk	Rms Current (10kHz)			
VOLTAGE VDC	µF	mm	(v/us)	Amps	25°C	55°C	85°C	105°C
500	500	50	33	16400	410	325	210	50
	1100	75	12	13400	335	266	172	41
	1600	100	8	12000	300	238	154	37
600	400	50	40	16000	400	317	205	49
	850	75	15	12800	320	254	164	39
	1200	100	9	10800	270	214	138	33
750	320	50	48	15200	380	302	195	46
	650	75	18	11600	290	230	149	35
	950	100	11	10400	260	206	133	32
900	220	50	64	14000	350	278	179	43
	550	75	20	10800	270	214	138	33
	800	100	13	10000	250	198	128	30
1100	150	50	85	12800	320	254	164	39
	370	75	28	10400	260	206	133	32
	550	100	17	9200	230	183	118	28
1400	110	50	80	8820	290	230	149	35
	270	75	36	9600	240	190	123	29
	400	100	21	8400	210	167	108	26
1600	90	50	112	10080	290	230	149	35
	210	75	44	9200	230	183	118	28
	310	100	26	8000	200	159	103	24
1800	70	50	126	8820	270	214	138	33
	160	75	53	8400	210	167	108	26
	240	100	31	7400	185	147	95	23
2000	50	50	180	9000	280	222	144	34
	120	75	70	8400	210	167	108	26
	200	100	36	7200	180	143	92	22
2400	30	50	216	6480	225	179	115	27
	85	75	78	6630	190	151	97	23
	140	100	47	6600	165	131	85	20

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

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ADVANCE DC LINK CAPACITORS

ADC-LH Series

ADC-LHx series is a brand new range of capacitors in the DC Link Product range. These capacitors are designed with very low ESL (<14nH), Aluminum Housing with integrated Aluminum mounting clamp (Heat-sink plate) for superior thermal conductivity. These are available in both Screw and Flange terminals. This range of capacitors provide very stable performance over a wide range of frequencies.

ADC-LHx range of capacitors are ideal for eMobility (Quick EV chargers), Induction Heating/ Welding machines and Medical Devices.

TECHNICAL DETAILS:

Capacitance Range	: 20µF to 500µF
Rated Voltage range (Vn)	: 500Vdc to 1500Vdc
Tolerance	: ±5% , ±10%
Max RMS current	: 100A
Dielectric	: Metallised Polypropylene Film
Casing	: Aluminum case with integrated aluminimum mounting clamp end filled with thermosetting epoxy resin UL94V0
Terminals (2)	: Nickel / Tin Plated M8 Brass Screw terminals with Bush or Flange terminals with internal threading
Test voltage between terminals(10s)	: 1.3 x $V_{n\ DC}$
Insulation withstanding voltage between shorted terminals & body	: 4$kV_{rms\ ,\ 50Hz}$
ESR	: < 0.7mΩ
ESL	: < 14nH
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-LHx
Value, Tolerance
Voltage, Current
Part Code
Mysore – India

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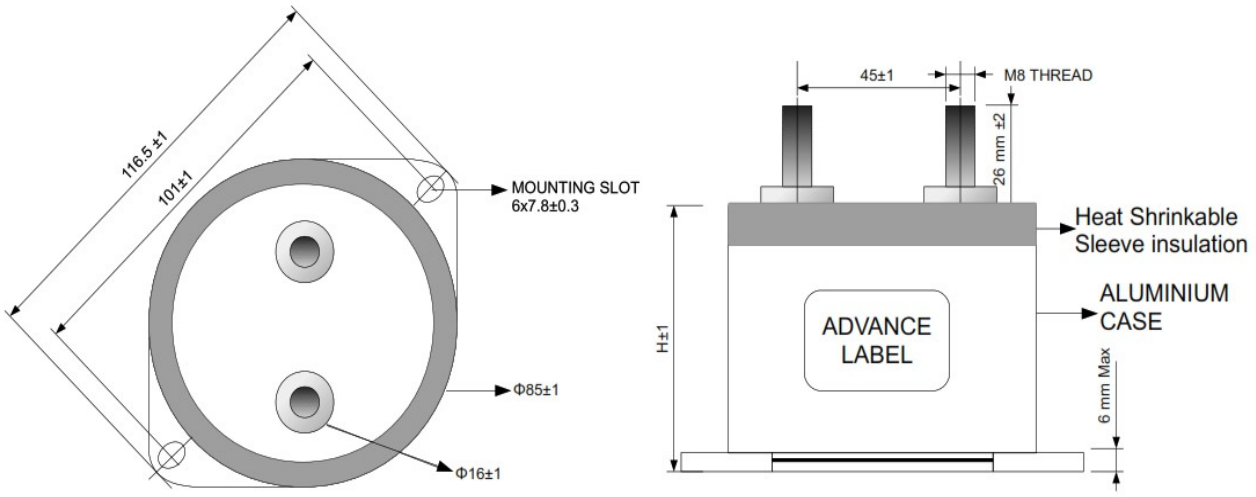
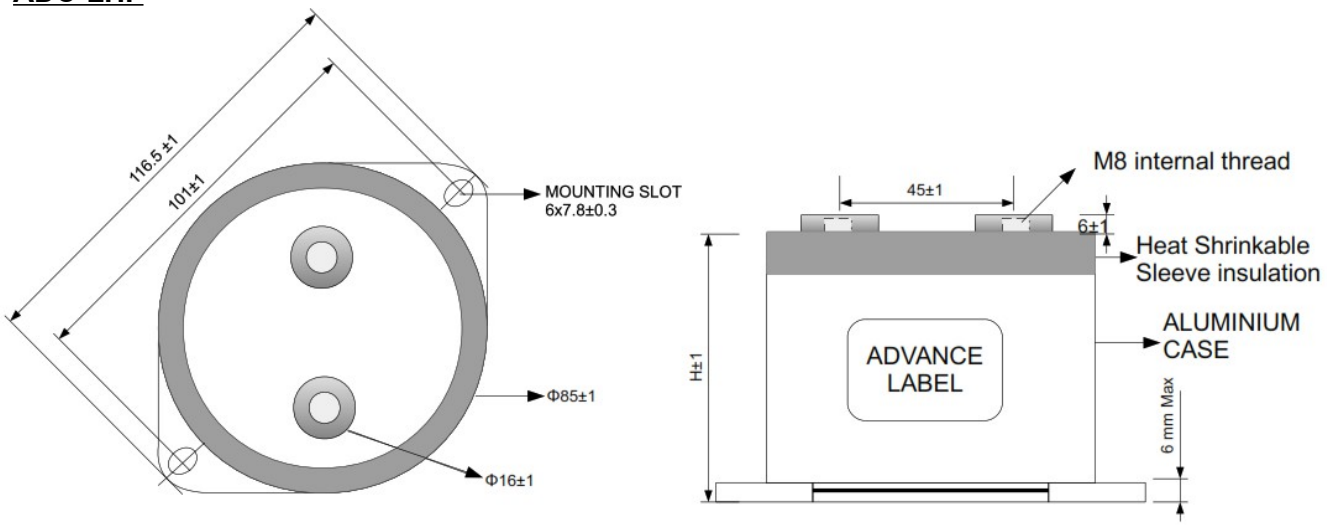
Dimensional Drawing in mm (not to scale)

ADC-LHS



ADC-LHF



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Standard Capacitor Range :

Rated DC Voltage	Capacitance µF	Diameter ±1mm	Height H ±1mm
500	60	85	56
	70		56
	100		56
	150		56
	200		69
	500		130
600	60		56
	70		56
	100		56
	150		56
	200		69
	500		130
700	100		56
	150		56
	200		69
	500		130
800	20		45
	50		45
	60		45
	100		56
	140		69
	200		94
	325		130

Rated DC Voltage	Capacitance µF	Diameter ±1mm	Height H ±1mm
900	20	85	45
	50		45
	60		45
	100		56
	150		69
	200		94
	325		130
1000	50		56
	60		69
	66		69
	100		69
	225		130
1100	50		56
	60		69
	66		69
	100		69
	225		130
1200	175		130
1500	100		130

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

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GSTIN : 29AABCA1720D1ZA

ADVANCE DC LINK CAPACITORS (ADC-CPx series)

ADC-CPx Series capacitors available in FR grade plastic case (PBT and Akulon) filled with self-extinguishing FR grade UL94VO resin. Available in both Screw (ADC-CPS) and Flange (ADC-CPF) terminals with integrated bottom clamp for mounting.

Specifications:

Capacitance Range	: 20µF to 200µF
Rated Voltage range	: 500Vdc to 1800Vdc
Tolerance	: ±5% / ±10%
Irms Max	: 100A
Dielectric	: Metallised Polypropylene Film
Test voltage between terminals(10s)	: 1.3 x Vn DC
Insulation withstanding voltage between shorted terminals & body	: 4kVrms , 50Hz
ESR	: As low as 0.7mΩ
Temperature Range	: -40°C to +85°C
Climatic Category	: 40/85/21
Standard reference	: IEC 61071
RoHS Compliance	: Yes
Protection	: Protected / Unprotected

Marking

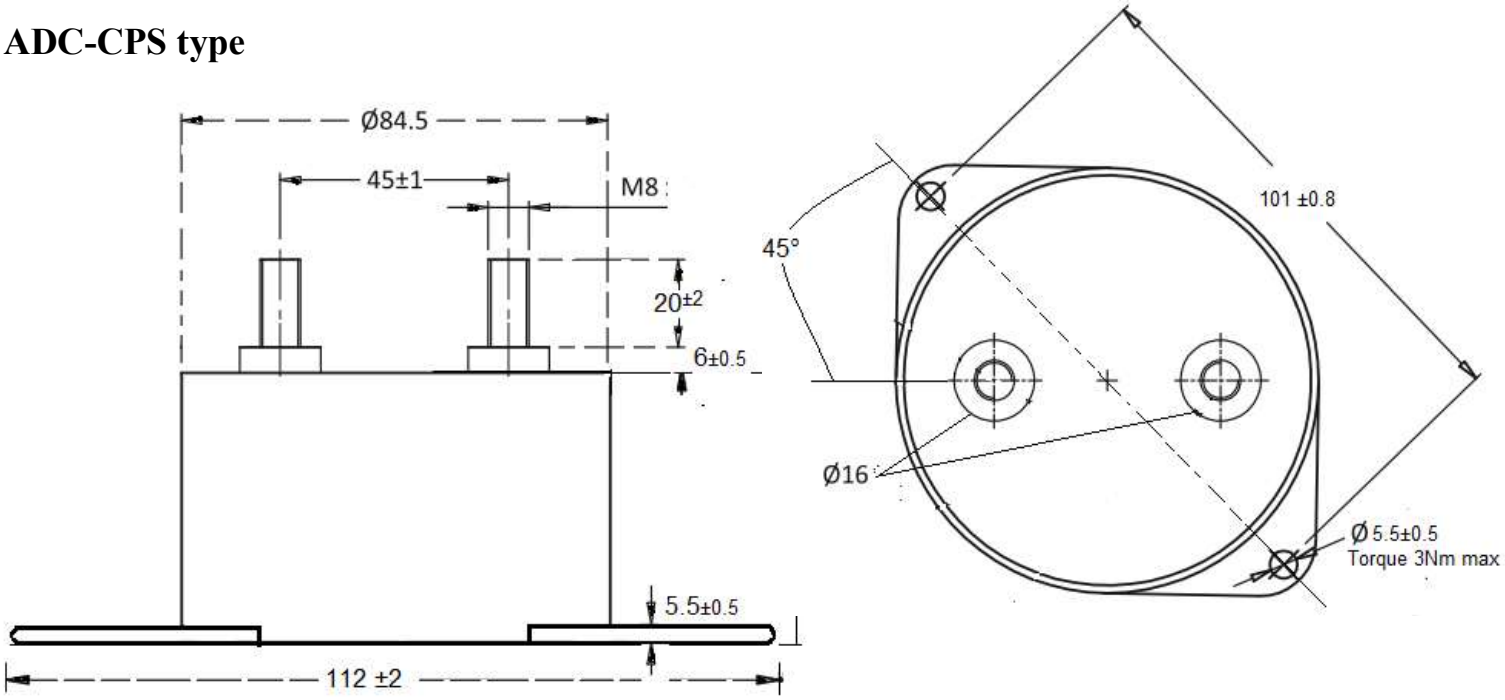
ADVANCEValue, ToleranceVoltage, CurrentPart Code
Mysore – India

Standard Capacitor Range :

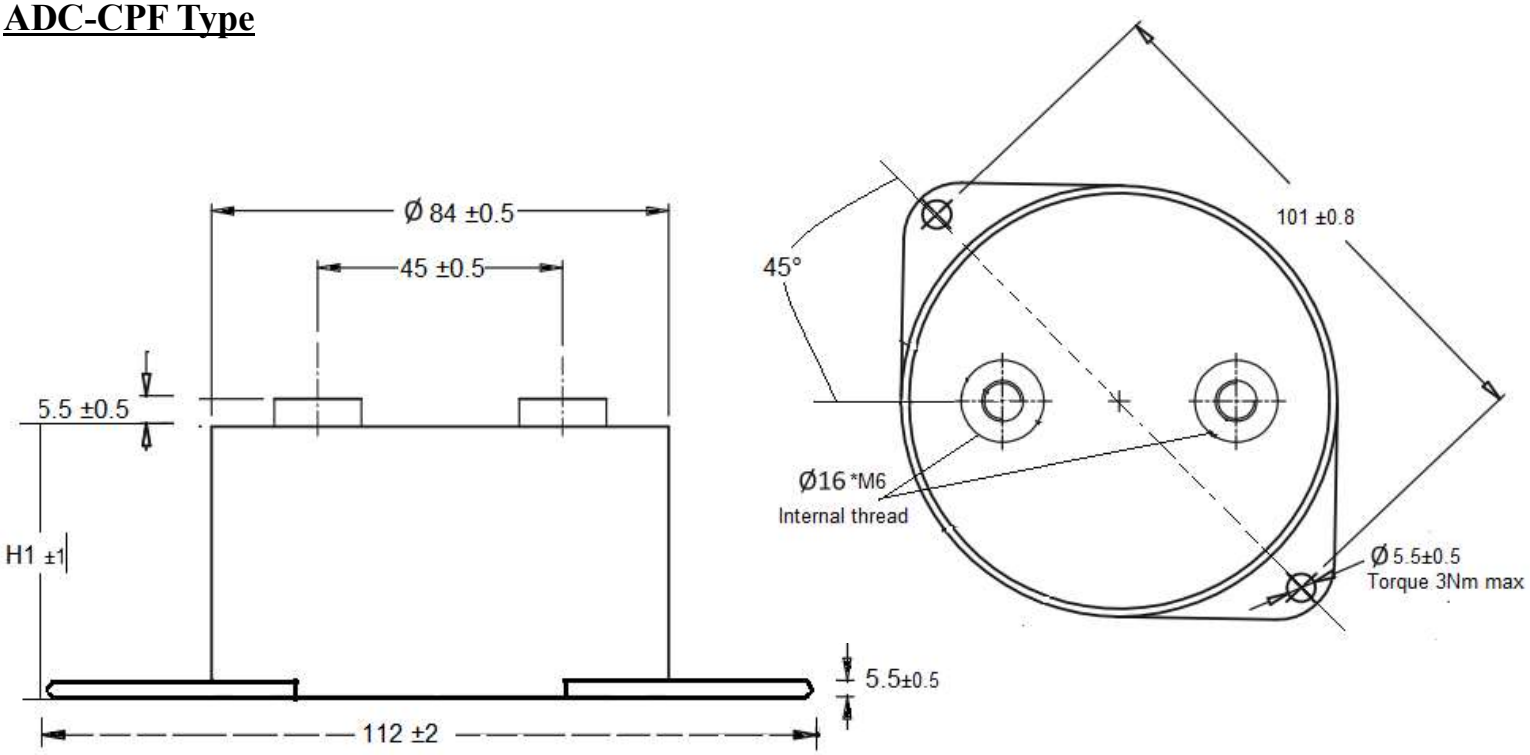
Rated Voltage VDC	Nominal Capacitance µF @1kHz	Case Dia Dia x H1 (mm)	Typical ESR @10kHz
700	85	85 x 40	≤3.0mΩ
	100	85 x 51	≤1.5mΩ
	140	85 x 51	≤1.5mΩ
	200	85 x 64	≤1.0mΩ
	265	85x 64	≤1.0mΩ
800	20	85 x 40	≤3.0mΩ
	50	85 x 40	≤2.5mΩ
	66	85 x 40	≤1.5mΩ
	85	85 x 40	≤1.5mΩ
	100	85 x 51	≤1.5mΩ
	140	85 x 51	≤1.5mΩ
	200	85 x 64	≤1.0mΩ
	260	85 x 64	≤1.0mΩ
900	66	85 x 40	≤1.5mΩ
	100	85 x 51	≤1.5mΩ
	140	85 x 64	≤1.5mΩ
	200	85 x 79	≤1.0mΩ
1000	50	85 x 40	≤4.0mΩ
	66	85 x 51	≤1.5mΩ
	85	85 x 51	≤1.5mΩ
	100	85 x 64	≤1.5mΩ
	140	85 x 79	≤1.5mΩ
	170	85 x 79	≤1.8mΩ

Rated Voltage VDC	Nominal Capacitance µF @1kHz	Case Dia Dia x H1 (mm)	Typical ESR @10kHz
1100	50	85 x 51	≤4.0mΩ
	66	85x64	≤1.5mΩ
	75	85 x 64	≤1.5mΩ
	85	85 x 64	≤1.5mΩ
1200	35	85 x 40	≤4mΩ
	50	85 x 51	≤4mΩ
	66	85 x 64	≤1.5mΩ
	85	85 x 64	≤1.5mΩ
	120	85 x 64	≤1.5mΩ
1400	25	85 x 40	≤4mΩ
	35	85 x 51	≤4mΩ
	50	85 x 64	≤4mΩ
	66	85 x 79	≤1.5mΩ
	75	85 x 79	≤1.5mΩ
1500	25	85 x 40	≤4mΩ
	35	85 x 51	≤4mΩ
	50	85 x 64	≤4mΩ
	66	85 x 64	≤1.5mΩ
1600	25	85 x 51	≤4mΩ
	35	85 x 51	≤4mΩ
	50	85 x 79	≤4mΩ
1800	10	85 x 40	≤4mΩ
	20	85 x 51	≤3mΩ
	30	85 x 64	≤3mΩ

ADC-CPS type



ADC-CPF Type



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advcaps@gmail.com
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An ISO 9001 & ISO 13485 Company
GSTIN : 29AABCA1720D1ZA

ADVANCE DC LINK CAPACITORS (ADC-CAx series)

ADC-CAx series capacitors available in Aluminum can filled with self-extinguishing FR grade UL94VO resin. Available in both Screw and Flange terminals with bottom stud for mounting (optional)

Specifications:

Capacitance Range	: 100 µF to 1200 µF
Rated Voltage range	: Upto 1320 Vdc
Tolerance	: ±5% / ±10%
Dielectric	: Metallised Polypropylene Film
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 0.7mΩ
Temperature Range	: -40°C to +85°C
Climatic Category	: 55/60/56
Standard reference	: IEC 61071
RoHS Compliance	: Yes
Protection	: Protected / Unprotected

Marking

ADVANCEValue , ToleranceVoltage ,
CurrentPart Code
Mysore – India
DISCHARGE BEFORE HANDLING

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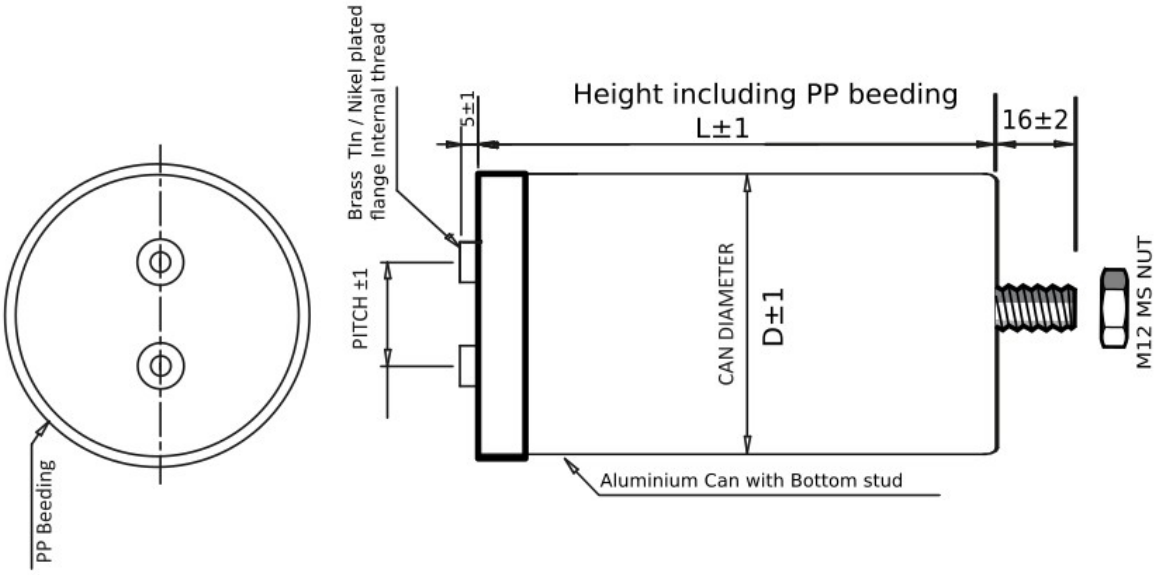
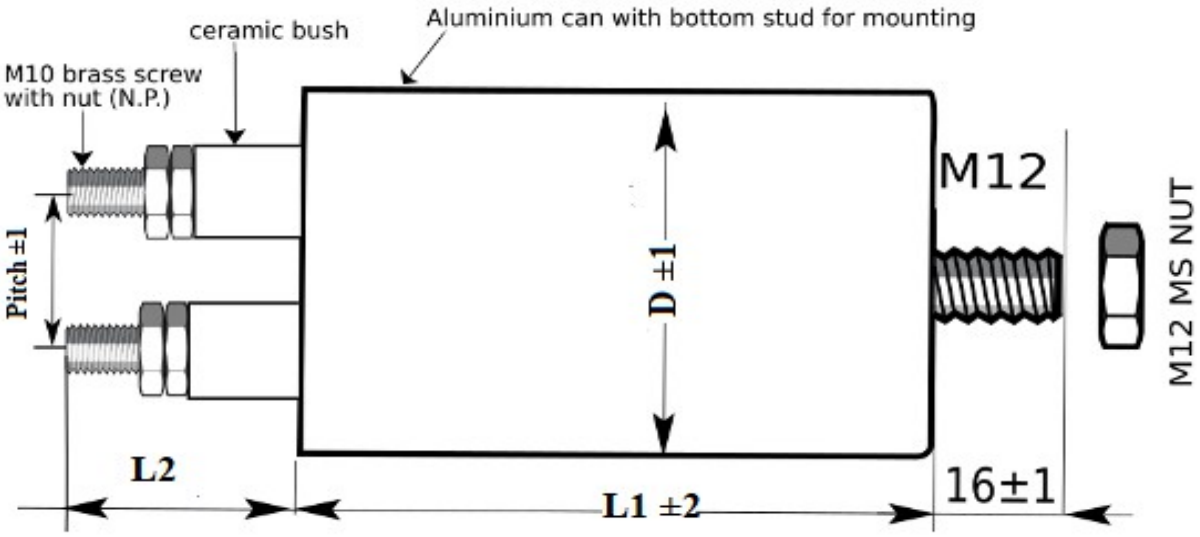
Dimensional Drawing: All Dimensions are in mm , Not to scale

TYPE 1 ADC-CAF Standard available Pitch = 35 & 50 mm



TYPE 2 ADC-CAS Standard available Pitch = 35 & 50 mm



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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 µF	40	100 x 133	100 x 130
	360 µF	40	116 x 133	116 x 130
	400 µF	40	116 x 133	116 x 130
	430 µF	40	116 x 133	116 x 130
	475 µF	60	136 x 133	136 x 130
	495 µF	60	136 x 133	136 x 130
	540 µF	60	136 x 133	136 x 130
	630 µF	60	136 x 133	136 x 130
	610 µF	60	136 x 133	136 x 130
	700 µF	60	136 x 188	136 x 185
1320	140 µF	25	116 x 98	116 x 95
	180 µF	30	116 x 98	116 x 95
	200 µF	40	116 x 98	116 x 95
	210 µF	40	116 x 98	116 x 95
	260 µF	45	116 x 98	116 x 95
	290 µF	50	116 x 98	116 x 95
	310 µF	52	116 x 98	116 x 95
	330 µF	55	136 x 95	136 x 95
	360 µF	58	116 x 183	116 x 180
	390 µF	62	116 x 183	116 x 180
	400 µF	65	116 x 183	116 x 180
	440 µF	70	116 x 183	116 x 180
	480 µF	72	116 x 183	116 x 180
	560 µF	75	136 x 183	136 x 180
	590 µF	80	136 x 183	136 x 180
	630 µF	90	136 x 183	136 x 180

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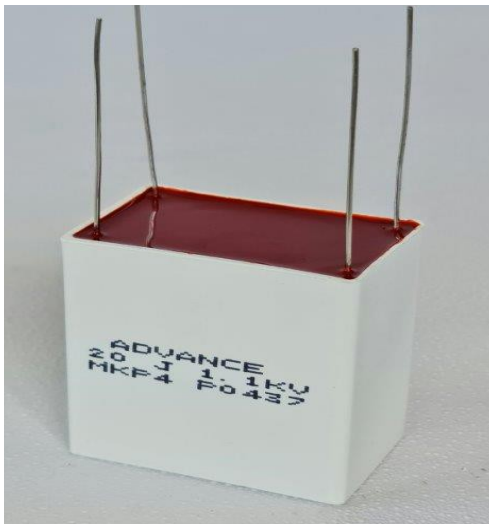
ADVANCE DC LINK CAPACITORS (ADC-RPx series)

ADC-RPx series capacitors available in FR grade plastic rectangular box and filled with self-extinguishing FR grade UL94VO resin with 2-pin and 4-pin configuration.

Specifications:



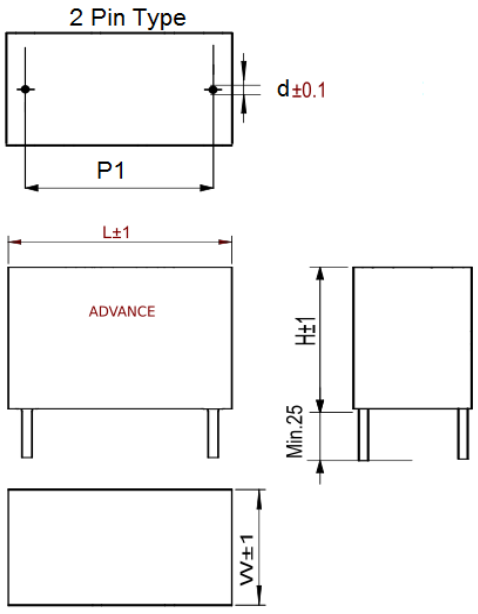
Capacitance Range	: 1 µF to 50 µF
Rated Voltage range	: 400Vdc to 1100Vdc
Tolerance	: ±5% / ±10%
Dielectric	: Metallised Polypropylene Film
Test voltage between terminals(10s)	: 1.3 x Vn DC
ESR	: As low as 10mΩ
Temperature Range	: -40°C to +85°C
Climatic Category	: 40/85/21
Standard reference	: IEC 61071
RoHS Compliance	: Available

Marking

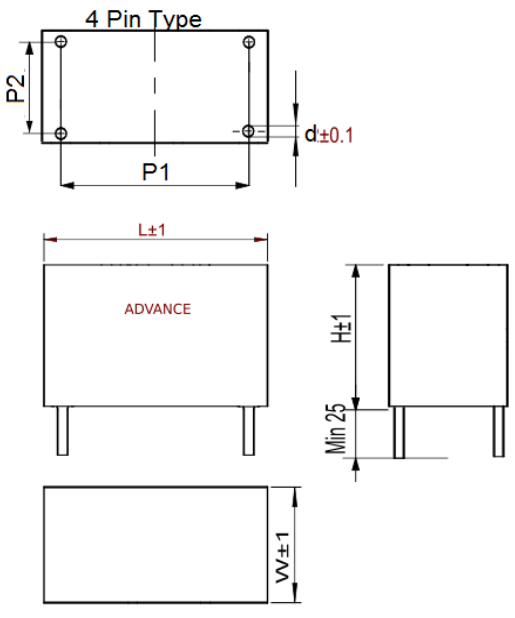
ADVANCEValue, ToleranceVoltage, CurrentPart Code

Dimensional Drawing: Dimensions (in mm) Not to Scale

ADC-RP2



ADC-RP4



Lead dia , d = 0.8 / 1. 0 / 1.2 mm lead dia , Custom Pitch can be made as per requiements.

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Standard Capacitor Range :

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

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ADVANCE DC LINK CAPACITORS (ADC-AR series)

ADC-AR Series

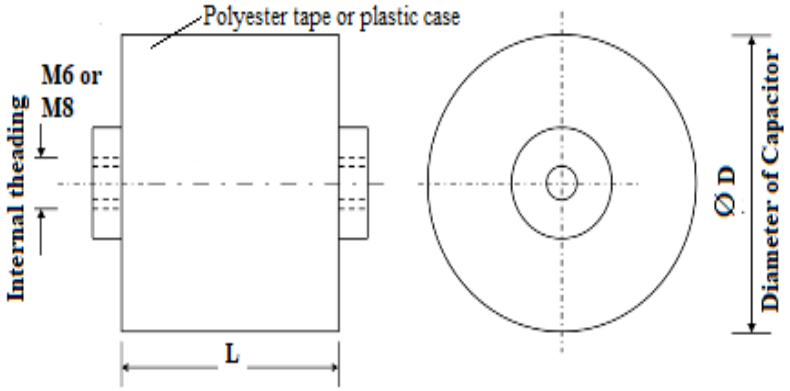
ADC-AR series capacitors are axial round capacitor with UL grade plastic or wrap tape with Flange terminals

Specifications:

Capacitance	: 5µF to 400µF
Rated Voltage	: 400Vdc to 800Vdc
Tolerance	: ±5%, ±10%
Dielectric	: Metallised Polypropylene Film
Irms max	: 100A @25°C, @10kHz
Temperature Range	: -40°C to +85°C
Climatic Category	: 40/85/56

Marking

ADVANCE
ADC-ARValue,
ToleranceVoltage, Current
Batch No / Date

	Standard Range						
Rated Voltage VDC	Nominal Capacitance µF @1kHz	Case Size **D** x **L** (mm)	Typical ESR @10kHz	Rated Voltage VDC	Nominal Capacitance µF @1kHz	Case Size **D** x **L** (mm)	Typical ESR @10kHz
700	85	66 x 40	≤4.0mΩ	**1100**	50	77x55	≤5.0mΩ
	100	66x55	≤2.5mΩ		66	77x65	≤2.5mΩ
	140	77x55	≤2.5m Ω		75	77x65	≤2.5mΩ
	200	80x65	≤2.0mΩ		85	80x65	≤2.5mΩ
	265	80x65	≤2.0mΩ	**1200**	35	77x40	≤5mΩ
800	20	42 x 40	≤5.0mΩ		50	77x55	≤5mΩ
	50	66x 40	≤4.5mΩ		66	72x65	≤2.5mΩ
	66	77x 40	≤3.5mΩ		85	80x65	≤2.5mΩ
	85	77 x 40	≤3.5mΩ		120	80x65	≤2.5mΩ
	100	77x55	≤3.5mΩ	**1400**	25	77x40	≤5mΩ
	140	80x55	≤3.5mΩ		35	72x55	≤5mΩ
	200	80x65	≤3.0mΩ		50	72 x 65	≤5mΩ
	260	80x65	≤3.0mΩ		66	77 x 75	≤2.5mΩ
900	66	77x 40	≤3.5mΩ		75	80 x 75	≤2.5mΩ
	100	77 x 55	≤3.5mΩ	**1500**	25	80x40	≤5mΩ
	140	77 x 65	≤2.5mΩ		35	80x55	≤5mΩ
	200	80 x 75	≤2.0mΩ		50	80 x 65	≤5mΩ
1000	50	80 x 40	≤5.0mΩ		66	82x75	≤2.5mΩ
	66	72 x 55	≤2.5mΩ	**1600**	25	85 x 40	≤5mΩ
	85	80 x 55	≤2.5mΩ		35	85 x 55	≤5mΩ
	100	77 x 65	≤2.5mΩ		50	80x65	≤5mΩ
	140	80 x 75	≤2.5mΩ	**1800**	10	85 x 40	≤5mΩ
	170	87 x 75	≤2.8mΩ				

Schematic diagram: