

Type IFP Single Phase DC Filter Capacitor

ASC™ IFP (Inverter Filter Power) capacitors are designed with modular DC link mounting in mind. Their cylindrical shape and terminal spacing originated as a drop-in replacement for electrolytics. Typically, film capacitors can handle much higher currents and as a result, bulk capacitance can be reduced.

Applications include but are not limited to: frequency converters, solar power inverters, motor drives and other DC filtering applications.

The capacitors are potted with urethane which offers excellent thermal conductivity to help transfer internal heating at high current levels to the aluminum shell and preserve the life of the capacitor.



IFP

General Specifications

Parameter	Value
Capacitance	52 – 4420 μ F
Tolerance	\pm 5%, \pm 10% – Special Tolerance on Request
Rated Voltage	700 – 1800 VDC
Temperature Range (operational)	-40/70C (custom ratings available)
Temperature Range (Storage)	-40/85C
RMS Current	20 – 100 Arms
Standards	IEC61071
Can/ Cover	Aluminum with plastic cover, sealed with epoxy or urethane
Terminals	Male (M6 or M8), Female (M5-M8) tin plated brass
Suggested Mounting Position	Any Position
Tan δ	2×10^{-4} Polypropylene
Terminal to Terminal Test	1.5 x Undc 10 seconds
Terminal to Case Test	$U_{T-CASE} = 2 U_i + 1000V$ or 3000V whichever is highest value
Reliability	100 FIT

Applications

- DC filtering
- Frequency Converters
- Solar Inverters
- Motor Drives

IFP (Inverter Filter Power) Specifications

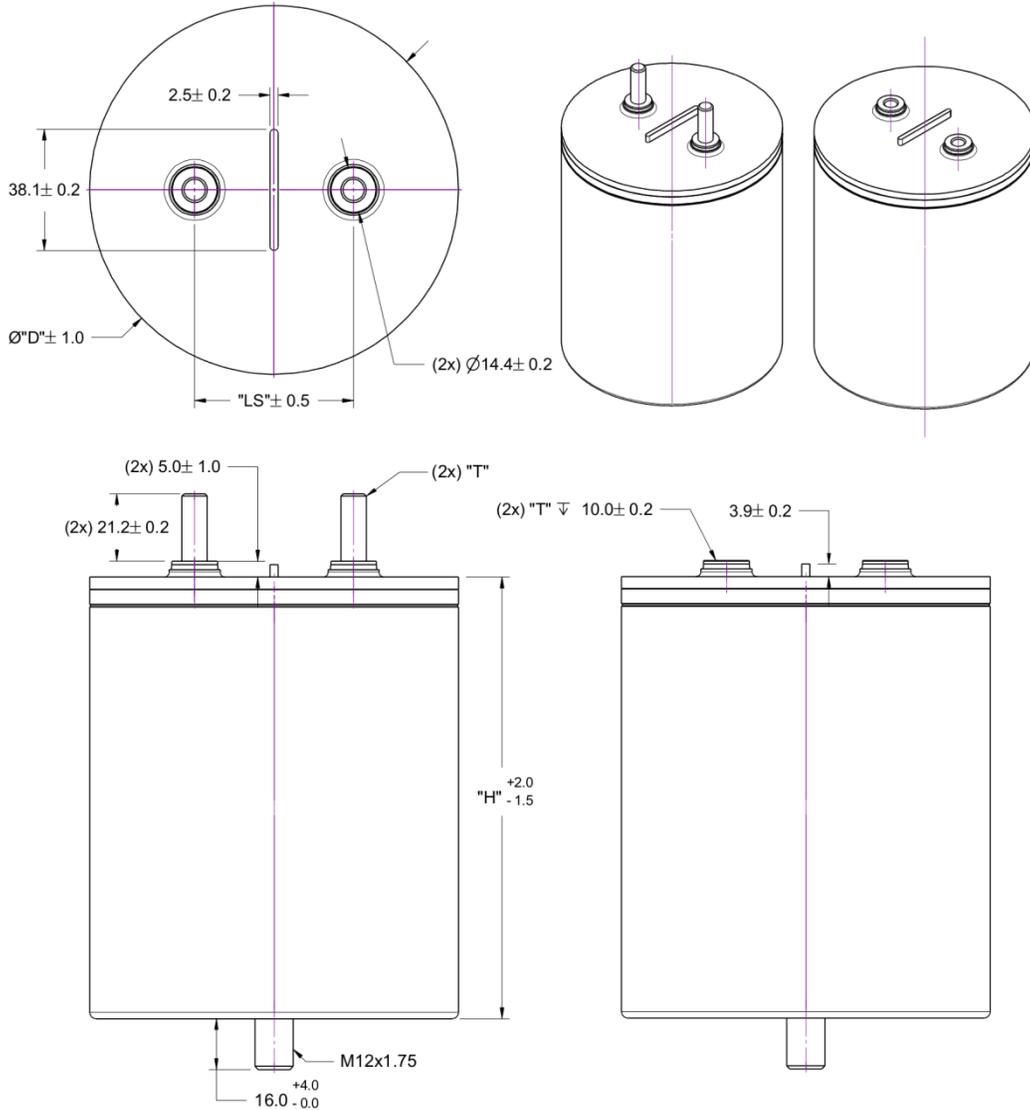
The values below are just a few select examples from the full catalog.

The full catalog listing can be found on our website at www.ascapacitor.com/dc_filter.php.

Cap [μF]	I _{RMS} [A _{RMS}]	I _{PEAK} [kA]	I _{SURGE} [kA]	R _{th} C-E [°C/W]	ESR (5kHz) [mΩ]	Diameter "D" [mm]	Height "H" [mm]	Size Option	Pieces / Box
700 VDC		1050 Vsurge							
250	20.0	1.3	3.7	4.5	5.0	75	110	-	10
750	35.0	1.6	6.5	3.3	3.7	85	135	-	9
1680	40.0	5.4	21.3	1.9	0.8	116	165	-	5
4420	60.0	10.0	30.2	1.0	1.0	136	295	-	4
900 VDC		1350 Vsurge							
250	30.0	1.1	4.4	3.8	4.1	85	110	-	9
425	52.0	1.9	7.8	3.4	1.9	75	155	-	10
540	75.0	2.8	8.4	3.8	1.9	100	87	-	9
750	50.0	2.9	8.8	2.3	3.0	116	135	-	5
3380	60.0	9.7	29.2	1.1	1.0	136	295	-	4
1100 VDC		1650 Vsurge							
260	44.0	1.7	5.2	2.8	1.8	85	87	-	9
420	55.0	2.6	7.9	2.9	2.8	85	190	A	9
420	30.0	1.6	4.9	2.1	6.7	85	136	B	9
520	39.0	2.2	6.7	4.5	1.8	100	126	-	9
780	49.0	3.0	9.1	1.4	3.6	116	136	-	5
2440	80.0	8.2	24.6	1.0	1.7	136	295	-	4
1300 VDC		1950 Vsurge							
90	15.0	0.6	1.7	3.8	14.6	75	110	-	10
180	43.0	1.1	3.2	3.3	4.7	85	136	-	9
230	38.0	1.9	5.6	2.3	3.6	100	87	-	9
545	80.0	4.4	13.3	2.0	1.5	116	165	-	5
1600	80.0	7.0	21.1	1.0	1.7	136	295	-	4
1500 VDC		2250 Vsurge							
135	19.0	0.8	2.3	2.4	13.8	75	136	-	10
210	25.0	1.1	3.4	2.0	9.6	85	136	-	9
300	24.0	1.2	3.5	1.6	12.7	85	181	A	9
300	69.0	3.0	9.0	2.3	2.2	100	165	B	9
615	76.0	3.9	11.6	1.6	2.4	116	230	-	5
1240	80.0	5.9	17.8	1.0	2.1	136	295	-	4
1800 VDC		2700 Vsurge							
52	15.0	0.5	1.5	3.7	14.1	75	110	-	10
150	24.0	1.0	3.0	1.9	10.8	85	136	-	9
190	70.0	2.7	8.2	2.5	2.0	100	155	-	9
420	70.0	1.6	4.7	1.6	3.1	116	230	-	5
900	80.0	5.3	15.9	1.0	2.3	136	295	-	4

If you do not see the value or size you are looking for above or in the online catalog, please do not hesitate to make an inquiry. The values in this table are just an example of the product range we typically produce.

Dimensions [mm]:



IFP

Ordering Information:

Type	Capacitance	Tolerance	Voltage	Terminals "T"	Size Option
IFP	20	5 = $\pm 5\%$	250	F5 = Female M5	(If applicable)
	\updownarrow	10 = $\pm 10\%$	\updownarrow	F6 = Female M6	A
	620		690	F8 = Female M8	\updownarrow
				M6 = Male M6	Z
				M8 = Male M8	

Examples:	Order Code
Type IFP, 250uF $\pm 5\%$, 700 VDC, Male M8 Terminals, 75x110mm	IFP 250-5-700 M8
Type IFP, 300uF $\pm 10\%$, 1500 VDC, Female M6 Terminals, 85x181mm	IFP 300-10-1500 F6 A
Type IFP, 300uF $\pm 10\%$, 1500 VDC, Female M6 Terminals, 100x165mm	IFP 300-10-1500 F6 B