

Type HVSC Single Phase AC Filter Capacitor

ASC™ HVSC (High Voltage Snubber Capacitors) are designed with very high surge/peak current capabilities for demanding low-to-medium voltage applications such as traction inverters, industrial inverters, adjustable-speed/variable-frequency drives and rail grid interties where GTOs and IGCTs are used.

The HVSC design utilizes a hybrid technology that combines the self healing property of metallized film and the high current capacity of foil to maintain very high peak and RMS currents.



General Specifications

Parameter	Value
Capacitance	0.05μF – 2.0μF
Tolerance	±5%, ±10% – Special Tolerance on Request
Rated Voltage	1000 – 3750 VDC, 500 – 2500 Vrms
Temperature Range (operational)	-40/85C (custom ratings available)
Temperature Range (Storage)	-40/85C
RMS Current	Up to 25 Arms
Standards	IEC61071
Case	PBT UL-94V-0 Standard
Fill Material	Epoxy
Terminals	Female M8 tin plated brass
Mounting Position	Any Position
Peak Current	800 – 1800 A
Tan δ	2 x 10 ⁻⁴ Polypropylene
Terminal to Terminal Test	1.5 x Undc for 10 seconds
Terminal to Case Test	U _{T-CASE} = 2 U _i +1000V or 3000V whichever is highest value
Reliability	100 FIT

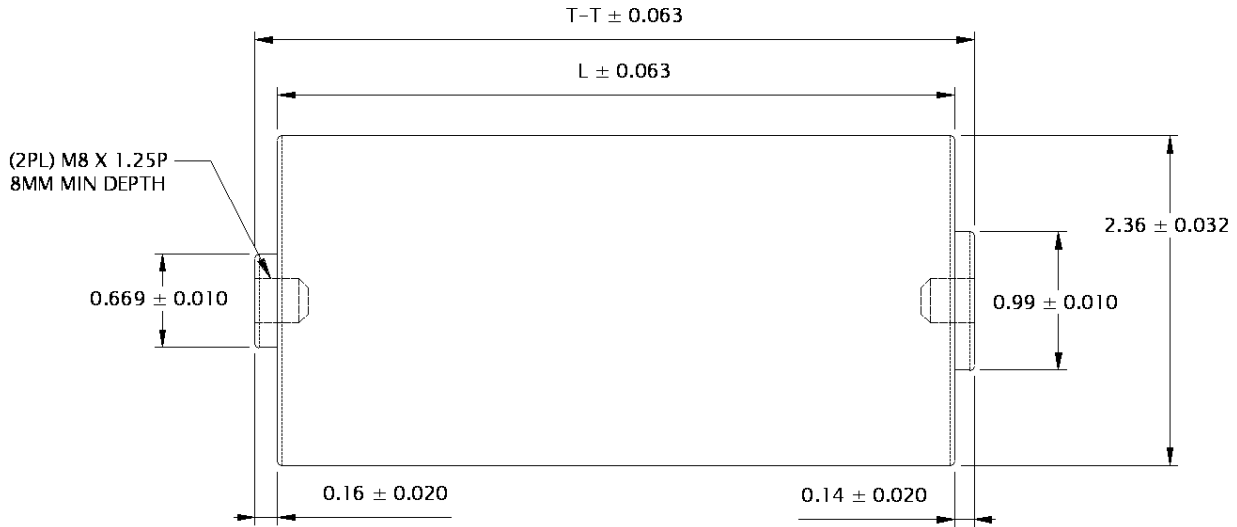
Applications

- GTO & IGCT Snubbers for Low-to-Medium Voltage Systems
- Traction Inverters
- Industrial Inverters
- Adjustable-Speed/Variable-Frequency Drives
- Rail Grid Interties

HVSC (High Voltage Snubber Capacitor) Specifications

Cap [μ F]	I_{RMS} [A _{RMS}]	I_{PEAK} [kA]	I_{SURGE} [kA]	ESR (60Hz) [m Ω]	T-T Length "T-T" [mm]	Length "L" [mm]
1000 VDC		500 Vrms		1500 Vsurge		
0.5	22	1.7	5.0	3	2.22	2.52
1.0	25	1.7	5.2	3	2.22	2.52
2.0	30	1.8	5.4	3	2.22	2.52
1500 VDC		1000 Vrms		2400 Vsurge		
0.125	22	0.9	2.8	4	3.22	2.85
0.25	25	1.2	3.5	3	3.22	2.85
0.5	25	1.7	5.0	3	3.22	2.85
2250 VDC		1500 Vrms		4000 Vsurge		
0.068	22	0.8	2.5	8	4.22	3.85
0.15	25	0.9	2.8	4	4.22	3.85
0.3	25	1.2	3.5	3	4.22	3.85
3000 VDC		2000 Vrms		6400 Vsurge		
0.0625	20	0.8	2.3	10	5.22	4.85
0.125	22	0.9	2.8	4	5.22	4.85
0.25	25	1.1	3.3	3	5.22	4.85
3750 VDC		2500 Vrms		7200 Vsurge		
0.05	20	0.8	2.3	10	6.22	5.85
0.1	22	0.9	2.8	5	6.22	5.85
0.2	25	1.1	3.3	3	6.22	5.85

Dimensions [in]:



Ordering Information:

Type	Capacitance	Tolerance	AC Voltage
HVSC	0.05	5 = ±5%	500
	↕	10 = ±10%	↕
	2.0		2500

Examples:	Order Code
Type HVSC, 1uF ±5%, 500 Vrms	HVSC 1-5-1000
Type HVSC, 0.068uF ±10%, 1500 Vrms	HVSC 0.068-10-1500

HVSC