

ADVANCE COMPONENTS AND INSTRUMENTS PVT. LTD MYSORE



POLYPROPYLENE IGBT SNUBBER CAPACITORS

Modern semiconductor technology is using powerful applications, which in fact results in high voltage and current levels continuously. Also the switching speed is increasing simultaneously. The new developments in this field include IGBT (Insulated Gate Bipolar Transistor) Modules. Due to shortest switching time realized using IGBT's makes it necessary for a low inductance circuit design. At times the low self inductance of the power bus induces high dangerous voltage surge between collector and emitter and this results in the destruction of the expensive power semiconductors.

For the protection of the components, Snubber Capacitors are used. So the low-inductance pulse capacitor is necessary to cut off peak voltages. Snubber Capacitors are high peak current capacitors for energy conversion and used to suppress or attenuate high voltage peaks to protect semiconductor devices.

GENERAL:

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

ADVANCE snubber capacitors are made using internationally accepted Series Metallised Technology for self-healing property. Advance snubber capacitors offer high pulse load capability for double sided metallization (type MKP) and/or film/foil metallization (type FKP). Aluminum foil electrodes are used for high peak current capacities. Capacitor elements are non-inductive and encapsulated by a yellow polyester tape or a plastic box and potted in flame retardant epoxy resin for environmental protection.

APPLICATIONS:

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

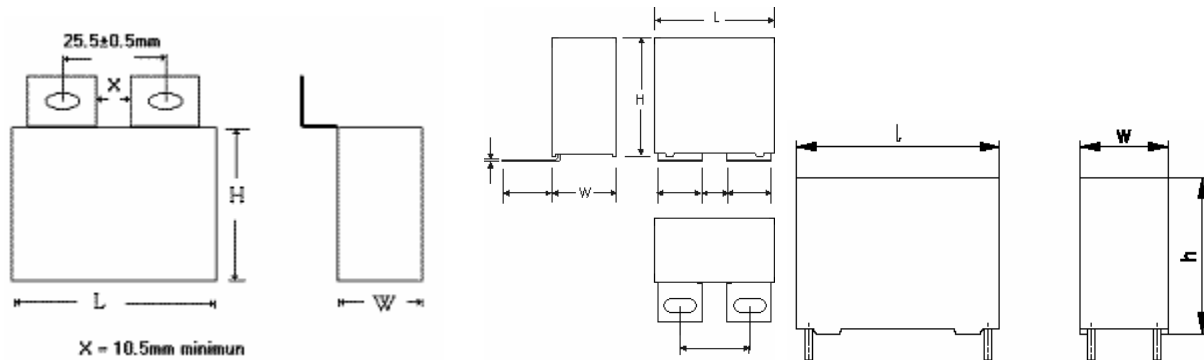
SPECIFICATIONS:

Temperature Range	: -55° to +100 ° C
Tan Delta	: 0.0005 at 1 KHz
Insulation Resistance	: 5,000 Mohm x mfd
Test Voltage T/T	: 2.0 times rated dc voltage for 10 s
T/C	: 3 kVAC for 60 s
Climatic Category	: 40/85/56
Tolerance	: ±5%, ±10%, ±20%
Terminals	: Tinned Copper Lugs

ADVANCE CAPACITORS IGBT SNUBBER CAPACITORS

Capacitance in μF	Rated Voltage in Volts	I_{Peak} In A	I_{rms} @100kHz 55°C	ESR max @ 100kHz in $\text{m}\Omega$	dv/dt $\text{V}/\mu\text{S}$	Box Size in mm (W x H x L)
0.22	1000 Vdc/ 480Vac	330	19	4.0	2000	17x29x41.5
0.33	1000 Vdc/ 480Vac	495	20	3.7	2000	24x38x48
0.47	1000 Vdc/ 480Vac	560	22	3.5	1500	24x38x48
0.68	1000 Vdc/ 480Vac	810	24	3.2	1500	30x45x45
1.00	1000 Vdc/ 480Vac	1000	26	3.0	1500	30x45x45
2.00	1000 Vdc/ 480Vac	1100	28	2.8	2000	30x45x45
3.00	1000 Vdc/ 480Vac	1200	30	2.5	2000	43x49x51
0.10	1500 Vdc / 630Vac	150	7	10.0	2000	17x29x41.5
0.22	1500 Vdc / 630Vac	330	20	4.5	2000	17x29x41.5
0.33	1500 Vdc / 630Vac	495	21	4.0	2000	24x38x48
0.47	1500 Vdc / 630Vac	705	23	3.8	2000	24x38x48
0.68	1500 Vdc / 630Vac	840	25	3.5	1500	30x45x45
1.00	1500 Vdc / 630Vac	1200	27	3.0	1500	30x45x45
0.10	2000 Vdc / 750Vac	150	8	8.0	2000	17x29x41.5
0.15	2000 Vdc / 750Vac	225	10	5.0	2000	24x38x48
0.22	2000 Vdc / 750Vac	330	21	4.5	2000	30x45x45
0.33	2000 Vdc / 750Vac	495	22	4.0	2000	30x45x45
0.47	2000 Vdc / 750Vac	700	24	3.2	2000	30x45x45
0.68	2000 Vdc / 750Vac	950	26	3.0	1500	35x45x45
1.00	2000 Vdc / 750Vac	950	26	3.2	1500	43x53x50

Note: Higher Values Available on request. Customized Capacitors also available.



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