

ADVANCE IGBT SNUBBER CAPACITORS

Advance snubber capacitors are made using internationally accepted series metallised technology for self-healing property. Metal 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.

GENERAL :

- ◆ Non Polar
- ◆ Self Healing
- ◆ available with UL grade Housing and Epoxy Resin
- ◆ Low ESR, ESL
- ◆ Low Losses
- ◆ High Insulation Resistance
- ◆ Suitable for High Frequencies

APPLICATIONS :

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

TYPE: FKP-6M IGBT Module direct mounting type

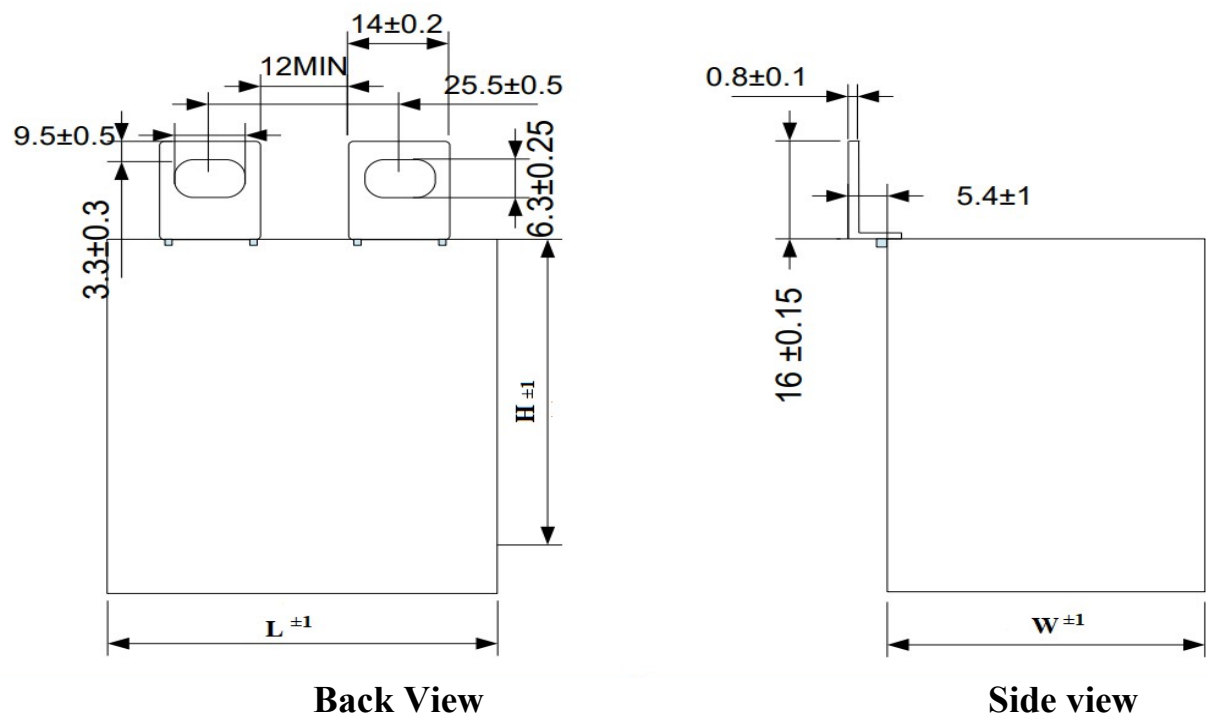
SPECIFICATIONS :

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

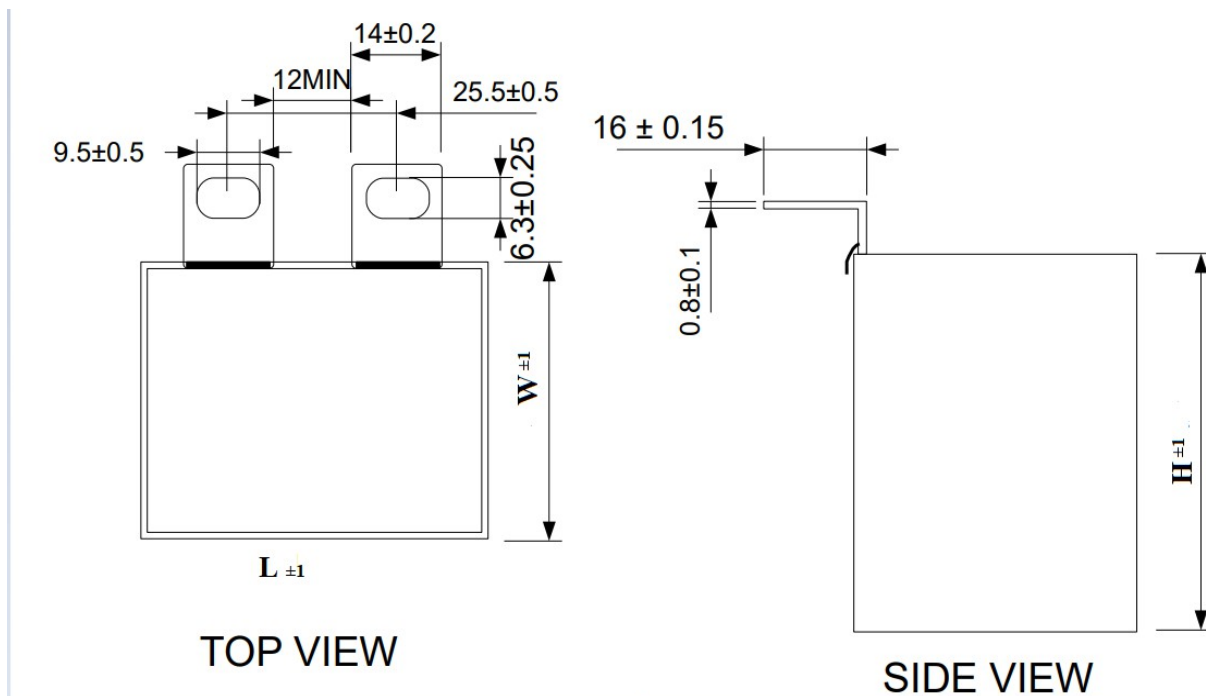


Dimensional details (in mm, not to scale):

Terminal Type RL



Terminal Type SL



Standard range:

RATED VOLTAGE 850VDC / 450VAC

CAPACITANCE	dv/dt	I _{peak}	I _{rms}	Typical ESR	CASE DIMENSIONS IN MM
μF	V/μS	A	A	mΩ	(WXHXL)
0.68	2000	1360	15	5.00	19x36x43
0.82	2000	1640	17	4.50	19x36x43
1	2000	2000	19	4.00	19x36x43
1.5	1500	2250	24	3.80	19x36x43
1.75	1500	2625	26	2.80	24X38X48
2	1500	3000	29	2.50	24X38X48
2.2	1500	3300	30	2.30	24X38X48
2.5	1500	3750	30	2.20	30X45X45
3	1500	4500	25	2.00	30X45X45
3.3	1500	4950	26	2.00	30X45X45
4	1500	6000	30	2.00	43X50X54
4.7	1500	7050	33	2.00	43X50X54
5.6	1500	8400	31	2.00	43X50X54
6.3	1500	9450	37	2.00	35X50X57.5

RATED VOLTAGE 1000VDC / 480VAC

CAPACITANCE	dv/dt	I _{peak}	I _{rms}	Typical ESR	CASE DIMENSIONS IN MM
μF	V/μS	A	A	mΩ	(WXHXL)
0.1	2000	200	5.60	10.30	17x29x41.5
0.15	2000	300	5.70	10.00	17x29x41.5
0.22	2000	440	15.80	9.00	17x29x41.5
0.27	2000	540	18.70	8.00	17x29x41.5
0.33	2000	660	19.70	5.00	19x36x43
0.39	2000	780	20.60	5.00	19x36x43
0.47	2000	940	21.10	3.50	19x36x43
0.56	1500	840	21.30	3.30	19x36x43
0.68	1500	1020	21.30	2.80	24X38X48
0.75	1500	1125	25.60	2.80	24X38X48
0.82	1500	1230	26.00	2.80	24X38X48
1	1500	1500	26.00	2.60	24X38X48
1.2	1500	1800	26.00	2.40	24X38X48
1.5	1500	2250	26.00	2.40	30X45X45
1.75	1500	2625	27.00	2.40	30X45X45
2	1500	3000	28.20	2.30	30X45X45
2.2	1500	3300	28.50	2.20	30X45X45
2.5	1500	3750	29.49	2.00	43X50X54
3	1500	4500	30.00	2.00	43X50X54
3.3	1500	4950	30.00	2.00	43X50X54
4	1500	6000	30.00	2.00	35X50X57.5

RATED VOLTAGE 1250VDC / 630VAC

CAPACITANCE	dv/dt	I _{peak}	I _{rms}	Typical ESR	CASE DIMENSIONS IN MM
μF	V/μS	A	A	mΩ	(WXHXL)
0.1	2000	200	5.60	10.50	17x29x41.5
0.15	2000	300	5.70	10.50	17x29x41.5
0.22	2000	400	15.80	9.20	17x29x41.5
0.27	2000	540	18.70	8.00	17x29x41.5
0.33	2000	660	19.70	5.20	19x36x43
0.39	2000	780	20.60	2.80	19x36x43
0.47	2000	940	21.10	2.80	19x36x43
0.56	1500	840	21.30	2.80	19x36x43
0.68	1500	1020	21.30	2.80	24X38X48
0.75	1500	1125	25.60	2.80	24X38X48
0.82	1500	1230	26.00	2.40	24X38X48
1	1500	1500	26.00	2.40	24X38X48
1.2	1500	1800	26.00	2.40	24X38X48
1.5	1500	2250	26.00	2.40	30X45X45
2	1500	3000	28.20	2.20	30X45X45
2.2	1500	3300	28.50	2.20	30X45X45

RATED VOLTAGE 1500VDC / 650VAC

CAPACITANCE	dv/dt	I _{peak}	I _{rms}	Typical ESR	CASE DIMENSIONS IN MM
μF	V/μS	A	A	mΩ	(WXHXL)
0.1	2000	200	5.60	10.30	17x29x41.5
0.15	2000	300	5.70	10.00	17x29x41.5
0.22	2000	440	18.20	9.20	19x36x43
0.27	2000	540	18.70	5.80	19x36x43
0.33	2000	660	19.70	5.20	19x36x43
0.39	2000	780	20.60	5.20	19x36x43
0.47	2000	940	21.10	3.60	24X38X48
0.56	1500	840	21.30	3.40	24X38X48
0.68	1500	1020	21.30	2.80	24X38X48
0.75	1500	1125	25.60	2.60	24X38X48
0.82	1500	1230	26.00	2.60	24X38X48
1	1500	1500	26.00	2.50	30X45X45
1.2	1500	1800	26.00	2.20	30X45X45
1.5	1500	2250	26.00	1.80	43X50X54
2	1500	3000	28.20	1.80	43X50X54

RATED VOLTAGE 2000VDC / 700VAC

CAPACITANCE	dv/dt	I _{peak}	I _{rms}	Typical ESR	CASE DIMENSIONS IN MM
μF	V/μS	A	A	mΩ	(WXHXL)
0.1	2000	200	8.00	10.30	17x29x41.5
0.15	2000	300	10.00	9.20	17x29x41.5
0.22	2000	440	21.00	9.20	19x36x43
0.33	2000	660	22.00	5.20	19x36x43
0.39	2000	780	22.50	5.20	19x36x43
0.47	2000	940	24.00	3.60	19x36x43
0.56	1500	840	24.00	3.40	24X38X48
0.68	1500	1020	24.00	2.80	24X38X48
0.75	1500	1125	24.00	2.80	30X45X45
1	1500	1500	25.00	2.20	43X50X54
2	1500	3000	28.00	1.80	43X54X58

RATED VOLTAGE 2500VDC / 725VAC

CAPACITANCE	dv/dt	I _{peak}	I _{rms}	Typical ESR	CASE DIMENSIONS IN MM
μF	V/μS	A	A	mΩ	(WXHXL)
0.1	2000	200	9	15.00	19x36x43
0.15	2000	300	12	14.00	19x36x43
0.22	2000	440	15	12.00	19x36x43
0.33	2000	660	19	10.00	19x36x43
0.47	2000	940	23	10.00	19x36x43

RATED VOLTAGE 3000VDC / 750VAC

CAPACITANCE	dv/dt	I _{peak}	I _{rms}	Typical ESR	CASE DIMENSIONS IN MM
μF	V/μS	A	A	mΩ	(WXHXL)
0.047	2500	117.5	6	20.00	19x36x43
0.068	2500	170	8	20.00	19x36x43
0.1	2500	250	11	16.00	24X38X48
0.15	2500	375	14	15.00	24X38X48
0.22	2500	550	15	14.00	30X45X45
0.33	2500	825	17	13.00	30X45X45

Note: Other capacitance values and voltage ratings available on request

Registered Office and Factory:

Advance Components and Instruments Pvt Ltd

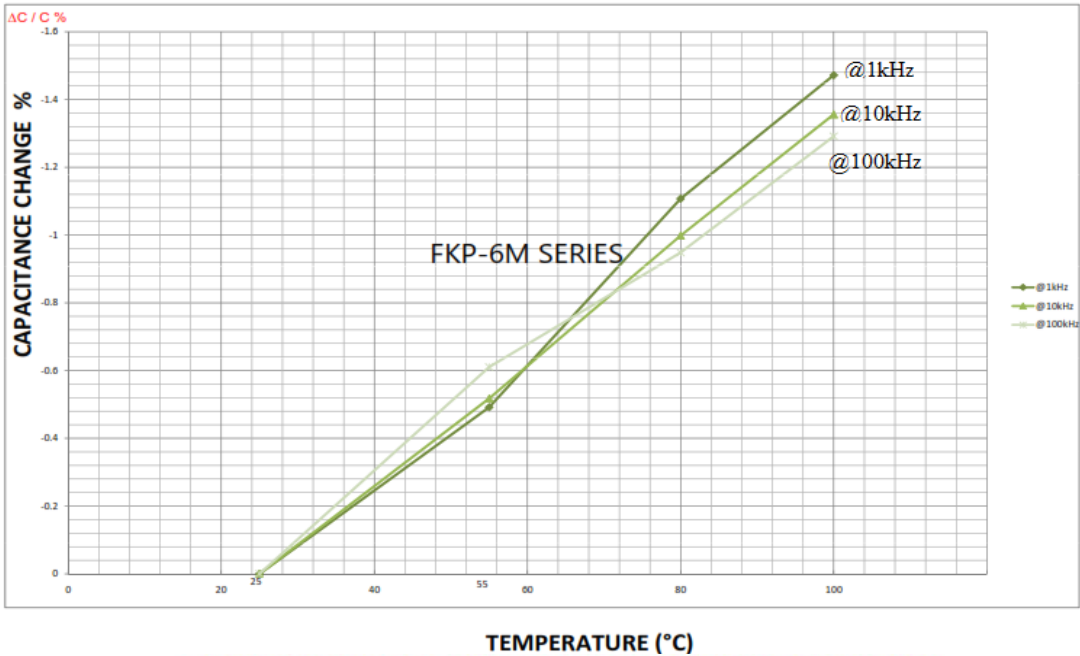
Phone: +91 821 2402301 / 2402307 Mobile & WhatsApp: +91 8073111025

E-mail : advcaps@gmail.com / enquiries@advancecapacitors.com

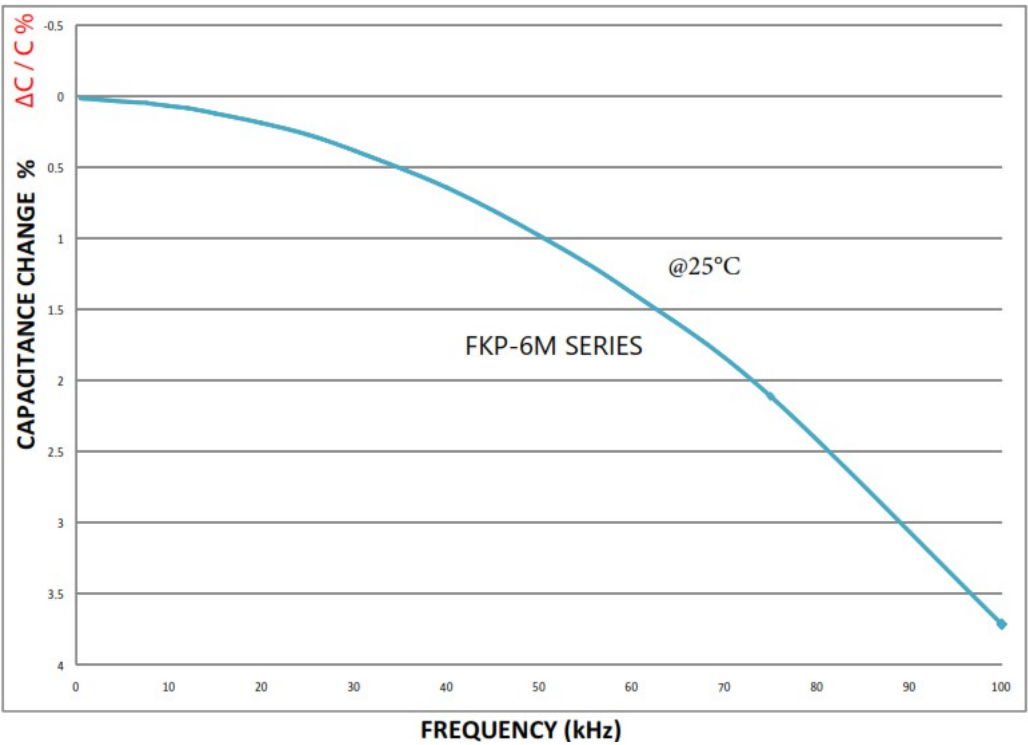
Website: www.advance-capacitors.com

Typical Graphs:

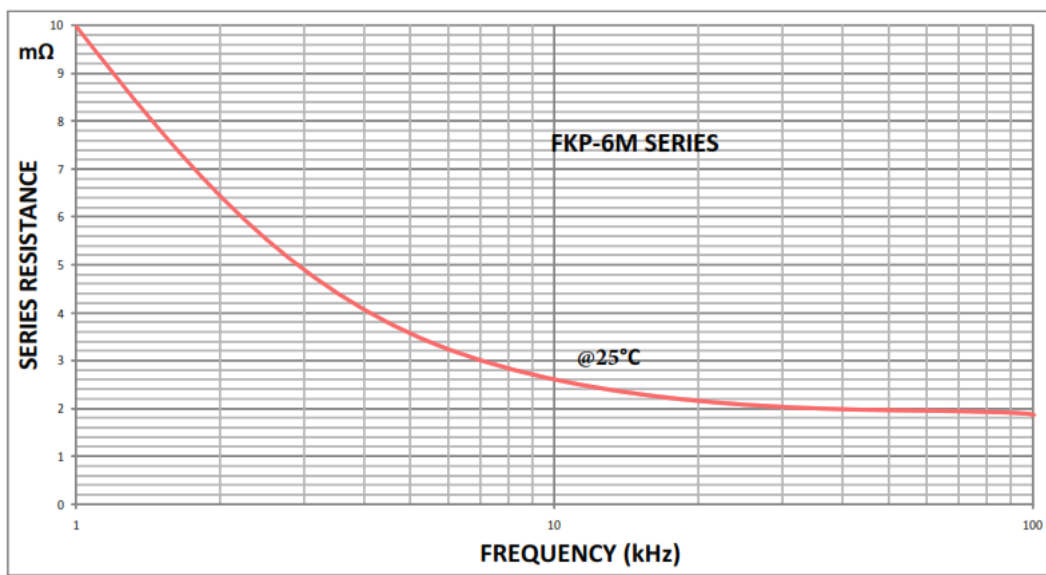
TYPICAL CAPACITANCE CHANGE VS TEMPERATURE GRAPH



TYPICAL CAPACITANCE CHANGE VS FREQUENCY GRAPH



TYPICAL SERIES RESISTANCE VS FREQUENCY GRAPH



TYPICAL TAN δ VS FREQUENCY GRAPH

