

Metallized Polypropylene IGBT Snubber Capacitors

Series Code
150

Main Application

IGBT snubber capacitors are used in high voltage, high current and high pulse applications such as IGBT protection circuits, snubber network protection circuits in SMPS energy conversion and control in power electronics.

Construction

Series constructed, low inductive wound cell of metallized polypropylene film as electrodes encased in flame retardant box.

Climatic Category

40/85/56

Maximum Operating Temperature

85°C

Applicable Specification

IEC 61071

Capacitance Value

1.5µF-10µF

Insulation Resistance

Minimum Insulation Resistance R_{IS} 30000 s
(or) time constant $T=C_R \times R_{IS}$

Capacitance Tolerance

±5%, ±10%

Rated Voltage

700VDC-3000VDC

Voltage Proof

Between terminals: 2 times of the rated voltage for 10 sec.

Tan δ

0.06% (maximum) at 1 kHz.

Life Test Conditions

(Loading at elevated temperature)

Loaded at 1.25 times of rated voltage at 85° C for 1000 hours.

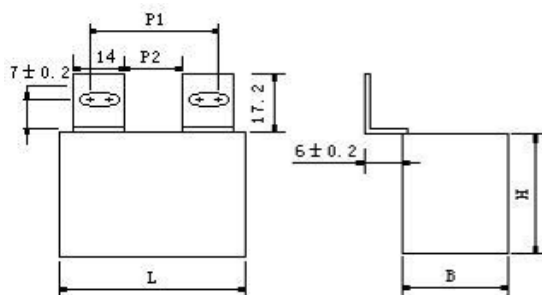
After The Test

$\Delta C/C$: ≤ 3% of initial value.

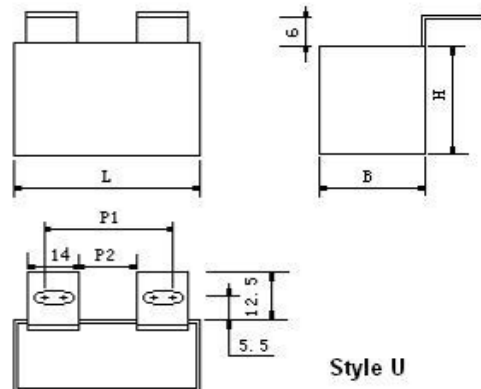
Increase of Tan δ: ≤ 1.4 times the value measured before the test.

Insulation Resistance: ≥ 50% of the value mentioned in IR chart.

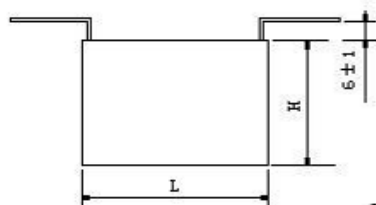
Style →	Style B				Style U				Style E
Length (mm)	P2	P1	P2	P1	P2	P1	P2	P1	P1
43.0	11	23-28	8	20-25	11	23-28	8	20-25	51-64
57.5	11	23-28	24	37-42	11	23-28	24	37-42	66-79



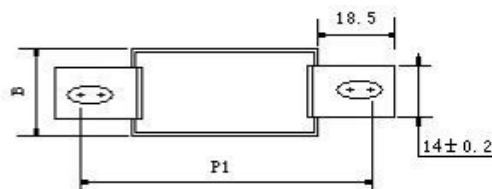
Style B



Style U



Style E



Metallized Polypropylene IGBT Snubber Capacitors



Series Code 150

Ordering code and packing units: Metallized Polypropylene IGBT Snubber Capacitors
Series Code 150

Rated Cap. (μF)	Dimensions (mm)			dv/dt (V/μs)	I _{peak} (A)	I _{rms} (max) (A)	ESR (mΩ)	Ordering Code
	W (±0.5)	H (±0.5)	L (±0.5)					
Ur 700VDC, Urms 380VAC, Upk 1000VDC								
1.5	24.5	27.5	43.0	132	198	15	3.6	150 155 +2K *^
2.0	33.5	36.0	43.0	132	264	16	3.1	150 205 +2K *^
3.0	33.5	36.0	43.0	132	396	20	2.6	150 305 +2K *^
3.3	33.5	36.0	43.0	132	436	21	2.5	150 335 +2K *^
4.0	33.5	36.0	43.0	132	528	23	2.2	150 405 +2K *^
4.7	34.0	46.0	43.0	132	620	26	1.9	150 475 +2K *^
5.0	34.0	46.0	43.0	132	660	26	1.9	150 505 +2K *^
5.6	34.0	46.0	43.0	132	739	27	1.8	150 565 +2K *^
6.8	30.0	50.0	57.5	90	612	27	2.3	150 685 +2K *^
8.2	35.0	50.0	57.5	90	738	32	2.1	150 825 +2K *^
10.0	35.0	50.0	57.5	90	900	32	1.9	150 106 +2K *^
Ur 850VDC, Urms 450VAC, Upk 1200VDC								
1.2	24.5	27.5	43.0	200	240	15	3.3	150 125 +2M *^
2.2	24.5	27.5	43.0	200	440	23	2.3	150 225 +2M *^
2.5	33.5	36.0	43.0	200	500	24	2.1	150 255 +2M *^
2.7	33.5	36.0	43.0	200	540	24	2.0	150 275 +2M *^
3.0	33.5	36.0	43.0	200	600	26	1.9	150 305 +2M *^
3.3	34.0	46.0	43.0	200	660	27	1.8	150 335 +2M *^
4.0	34.0	46.0	43.0	200	800	28	1.7	150 405 +2M *^
4.7	30.0	46.0	57.5	110	517	27	2.2	150 475 +2M *^
5.0	30.0	46.0	57.5	110	550	28	2.2	150 505 +2M *^
5.6	35.0	50.0	57.5	110	616	32	1.9	150 565 +2M *^
6.8	35.0	50.0	57.5	110	748	32	1.8	150 685 +2M *^
Ur 1000VDC, Urms 480VAC, Upk 1400VDC								
1.0	24.5	27.5	43.0	225	225	15	3.3	150 105 +3A *^
2.0	33.5	36.0	43.0	225	450	23	2.1	150 205 +3A *^
2.5	34.0	46.0	43.0	225	563	27	1.8	150 255 +3A *^
3.3	30.0	46.0	57.5	130	429	26	2.4	150 335 +3A *^
4.7	35.0	50.0	57.5	130	611	32	1.9	150 475 +3A *^
Ur 1200VDC, Urms 500VAC, Upk 1600VDC								
0.68	24.5	27.5	43.0	225	153	13	4.1	150 684 +2P *^
1.5	33.5	36.0	43.0	225	338	21	2.6	150 155 +2P *^
2.0	34.0	46.0	43.0	225	450	26	2.0	150 205 +2P *^
2.2	34.0	46.0	43.0	225	195	27	1.9	150 225 +2P *^
2.5	30.0	46.0	57.5	150	375	26	2.4	150 255 +2P *^
3.0	35.0	50.0	57.5	150	450	30	2.1	150 305 +2P *^
3.3	35.0	50.0	57.5	150	495	31	2.0	150 335 +2P *^
Ur 1500VDC, Urms 575VAC, Upk 2000VDC								
0.33	24.5	27.5	43.0	225	74	12	5.6	150 334 +3R *^
0.47	24.5	27.5	43.0	225	106	13	4.5	150 474 +3R *^
0.68	33.5	36.0	43.0	225	153	18	3.8	150 684 +3R *^
1.0	33.5	36.0	43.0	225	225	21	2.6	150 105 +3R *^
1.2	34.0	46.0	43.0	225	180	25	2.1	150 125 +3R *^
1.5	30.0	46.0	57.0	150	225	23	3.1	150 155 +3R *^
2.0	35.0	50.0	57.5	150	300	27	2.6	150 205 +3R *^
2.2	35.0	50.0	57.5	150	385	28	2.5	150 225 +3R *^

Metallized Polypropylene IGBT Snubber Capacitors



Series Code 150

Ordering code and packing units: Metallized Polypropylene IGBT Snubber Capacitors
Series Code 150 (continued)

Rated Cap. (μF)	Dimensions (mm)			dv/dt (V/μs)	I _{peak} (A)	I _{rms} (max) (A)	ESR (mΩ)	Ordering Code
	W (±0.5)	H (±0.5)	L (±0.5)					
Ur 2000VDC, Urms 630ac, Upk 2400VDC								
0.22	24.5	27.5	43.0	410	90	11	6.4	150 224 +3D *^
0.33	24.5	27.5	43.0	410	135	12	57	150 334 +3D *^
0.47	33.5	36.0	43.0	410	193	17	3.8	150 474 +3D *^
0.56	33.5	36.0	43.0	410	230	18	3.4	150 564 +3D *^
0.68	34.0	46.0	43.0	410	279	22	3.0	150 684 +3D *^
0.82	34.0	46.0	43.0	410	336	22	2.7	150 824 +3D *^
1.00	30.0	46.0	57.5	225	225	22	3.5	150 105 +3D *^
1.50	35.0	50.0	57.5	225	338	26	2.8	150 155 +3D *^
Ur 2500VDC, Urms 700VAC, Upk 3000VDC								
0.12	24.5	27.5	43.0	550	66	8	10.3	150 124 +3E *^
0.15	24.5	27.5	43.0	550	83	10	8.5	150 154 +3E *^
0.18	24.5	27.5	43.0	550	99	11	7.3	150 184 +3E *^
0.22	33.5	36.0	43.0	550	121	14	6.1	150 224 +3E *^
0.33	33.5	36.0	43.0	550	182	16	4.5	150 334 +3E *^
0.39	33.5	36.0	43.0	550	215	17	4.0	150 394 +3E *^
0.47	34.0	46.0	43.0	550	259	20	3.5	150 474 +3E *^
0.56	34.0	46.0	43.0	550	308	21	3.1	150 564 +3E *^
0.68	30.0	46.0	57.5	290	197	21	3.9	150 684 +3E *^
1.0	35.0	50.0	57.5	290	290	25	3.1	150 105 +3E *^
Ur 3000VDC, Urms 750VAC, Upk 3500VDC								
0.068	24.5	27.5	43.0	750	51	7	14.8	150 683 +3F *^
0.1	24.5	27.5	43.0	750	75	8	10.2	150 104 +3F *^
0.12	33.5	36.0	43.0	750	90	11	8.9	150 124 +3F *^
0.15	33.5	36.0	43.0	750	113	13	7.3	150 154 +3F *^
0.18	33.5	36.0	43.0	750	135	14	6.3	150 184 +3F *^
0.22	34.0	46.0	43.0	750	165	16	5.3	150 224 +3F *^
0.33	34.0	46.0	43.0	750	248	19	4.2	150 334 +3F *^
0.39	30.0	46.0	57.5	370	144	19	5.2	150 394 +3F *^
0.47	35.0	50.0	57.5	370	174	21	4.6	150 474 +3F *^
0.56	35.0	50.0	57.5	370	207	22	4.1	150 564 +3F *^

DC Voltage Codification

A		B		C		D		E		F		G	
1A	10	1B	12.5	1C	16	1D	20	1E	25	1F	30	1G	40
2A	100	2B	125	2C	160	2D	200	2E	250	2F	300	2G	400
3A	1000	3B	1250	3C	1600	3D	2000	3E	2500	3F	3000	3G	4000

H		I		J		K		L		M		N	
1H	50	1I	45	1J	63	1K	70	1L	80	1M	85	1N	90
2H	500	2I	450	2J	630	2K	700	2L	800	2M	850	2N	900
3H	5000	3I	4500	3J	6300	3K	7000	3L	8000	3M	8500	3N	9000

O		P		Q		R		S	
1O	110	1P	120	1Q	57.5	1R	15	1S	17
2O	1100	2P	1200	2Q	575	2R	150	2S	170
3O	11000	3P	12000	3Q	5750	3R	1500	3S	1700

Note: For more details please contact info@dekielectronics.com