

CAPACITOR



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SMJ-P
IGBT / GTO-Snubber

POWER LINKS SUCCESS

IGBT SMJ-P series

Snubber capacitor

Tin-plated copper inserts leads , easy installation for IGBT



Application

- IGBT Snubber.
- Widely used in power electronic equipment when the peak voltage, peak current absorption protection.

Technical data

Operating temperature range	Max.Operating temperature.Top,max : + 105°C
	Upper category temperature:+85°C
	Lower category temperature:- 40°C
(C _N) / Capacitance range	0.1μF~5.6μF
(U _N) / Rated voltage	700V.DC ~ 3000V.DC
Cap.tol	±5% (J) ; ±10% (K)
Withstand voltage	1.5U _{NDC} /10s
Dissipation factor	$\text{tg}\delta < 0.0005$ C<1μF f=10kHz
	$\text{tg}\delta < 0.001$ C>1μF f=10kHz
Insulation resistance	C ≤0.33μF R _s ≥30000 MΩ (at20°C 100V.DC 60s)
	C > 0.33μF R _s ×C ≥10000s (at20°C 100V.DC 60s)

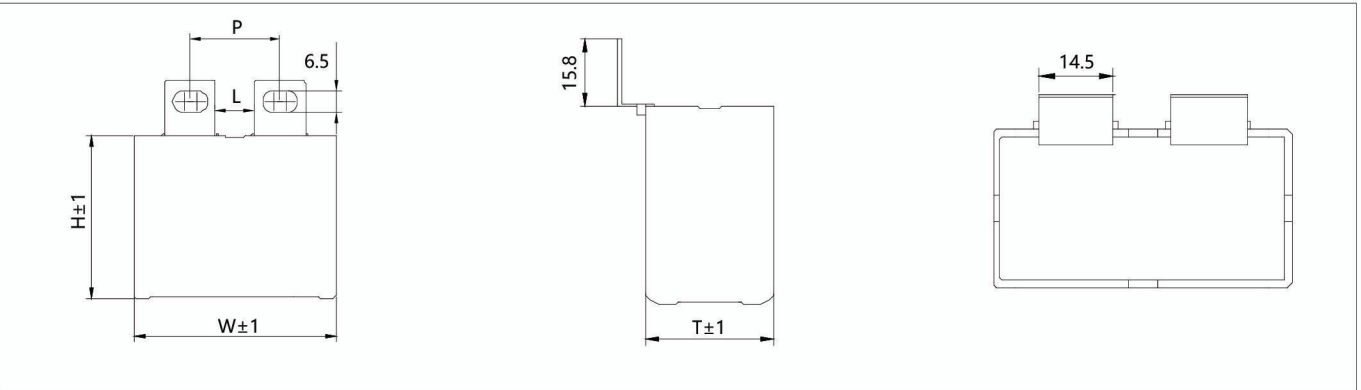


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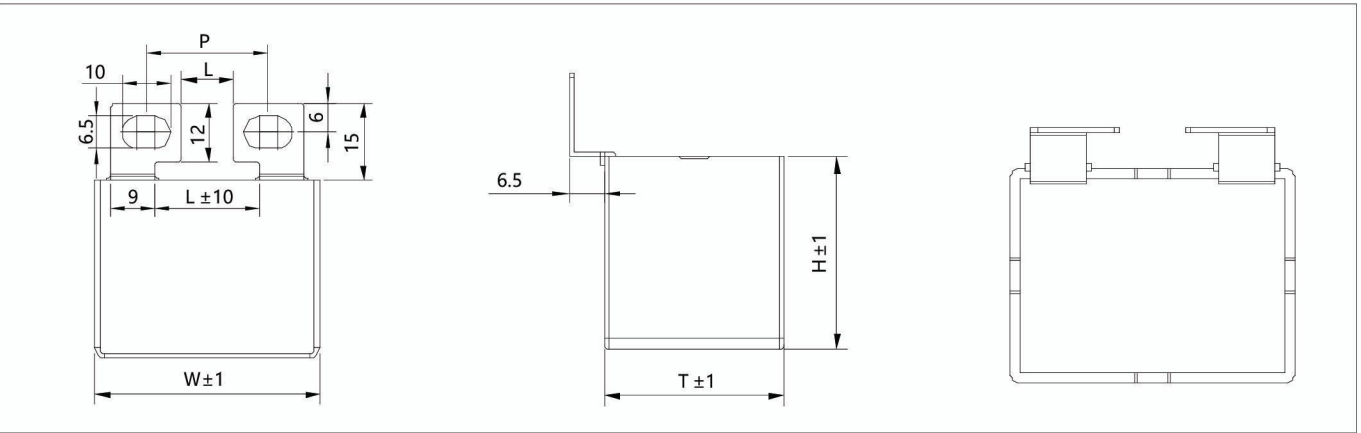
Technical data

Withstand strike current	See the specification sheet
Flame retardation	UL94V -0
Life expectancy	100000h (U _N ; θ _{hotspot} ≤85°C)
Reference standard	IEC61071 ; GB / T17702

Size chart



Type A0:				Output: M6
W	L	P	L	P
42.5	10.5	22 ~ 29		
57.5	10.5	22 ~ 29	25.5	37 ~ 44



Type A1:				Output: M6
W	L	P	L	P
42.5	10.5	22 ~ 29		
57.5	10.5	22 ~ 29	25.5	37 ~ 44

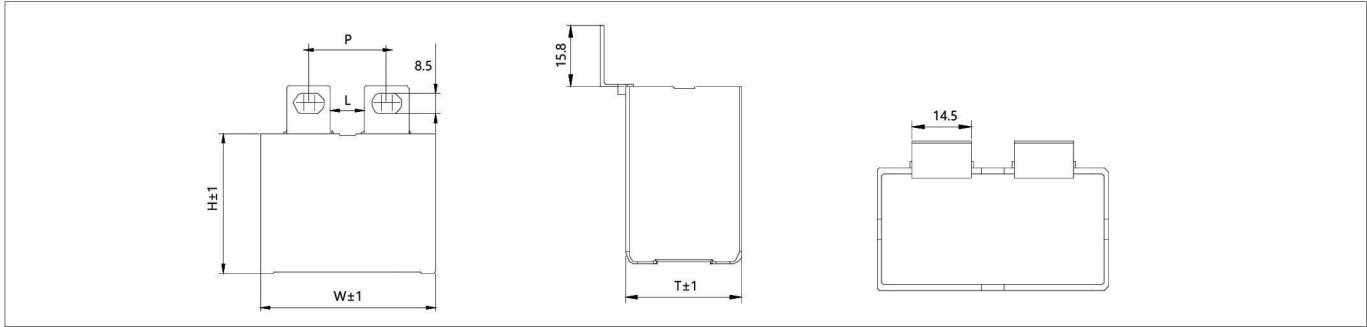


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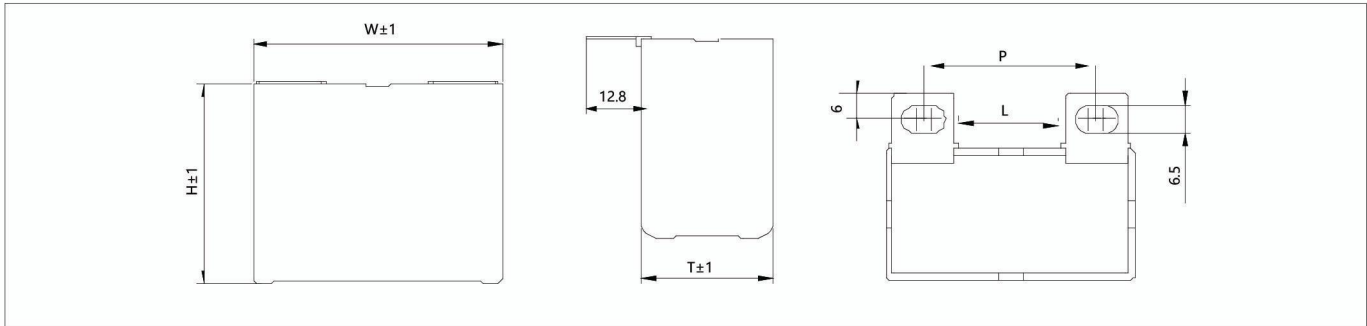
IGBT SMJ-P series

Snubber capacitor

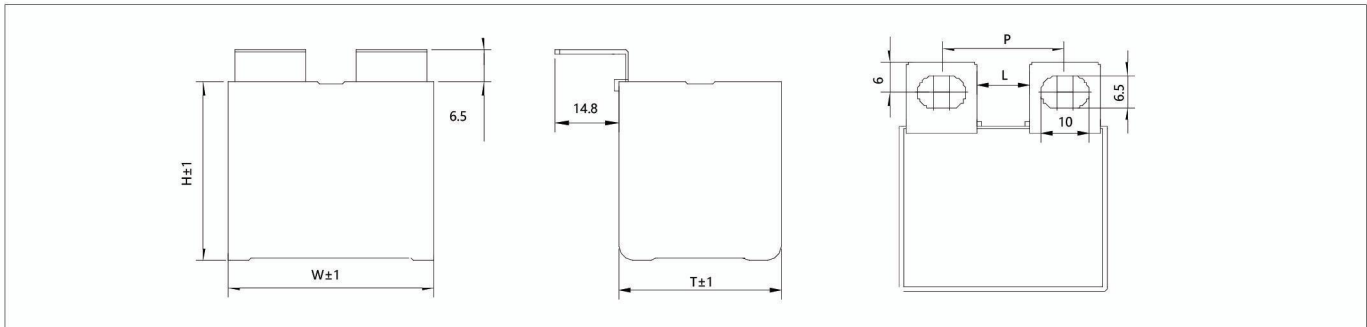
Size chart



Type A2:			Output: M8		
W	L	P	L	P	
42.5	11	24 ~ 26	8	21 ~ 23	
57.5	11	24 ~ 26	24	37 ~ 39	



Type B0:			Output: M6		
W	L	P	L	P	
42.5	10.5	22 ~ 29			
57.5	10.5	22 ~ 29	25.5	37 ~ 44	

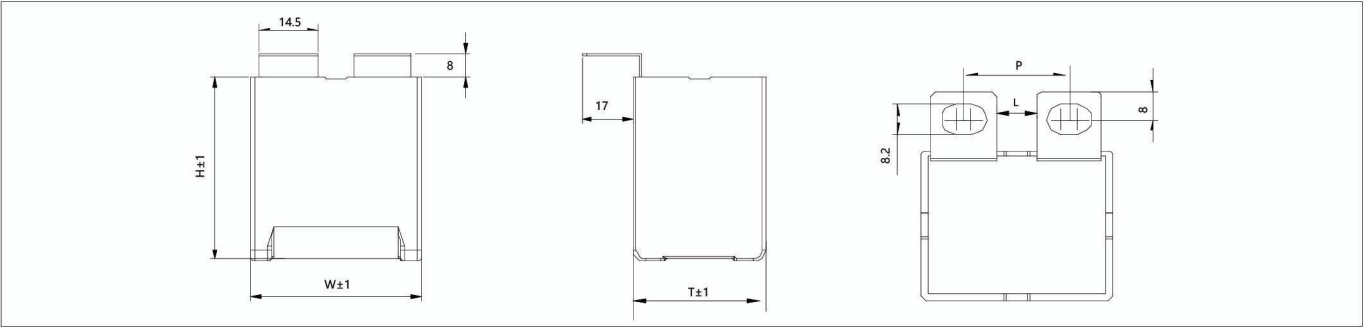


Type B1:			Output: M6		
W	L	P	L	P	
42.5	10.5	22 ~ 29			
57.5	10.5	22 ~ 29	25.5	37 ~ 44	

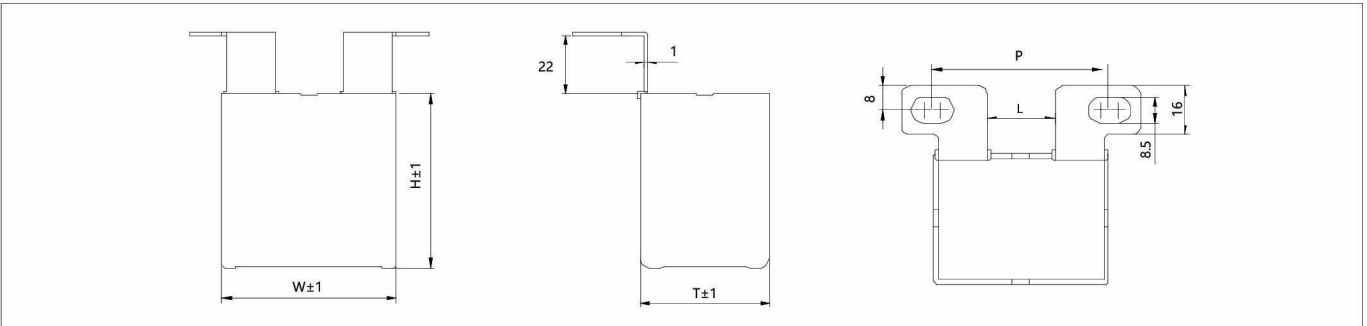


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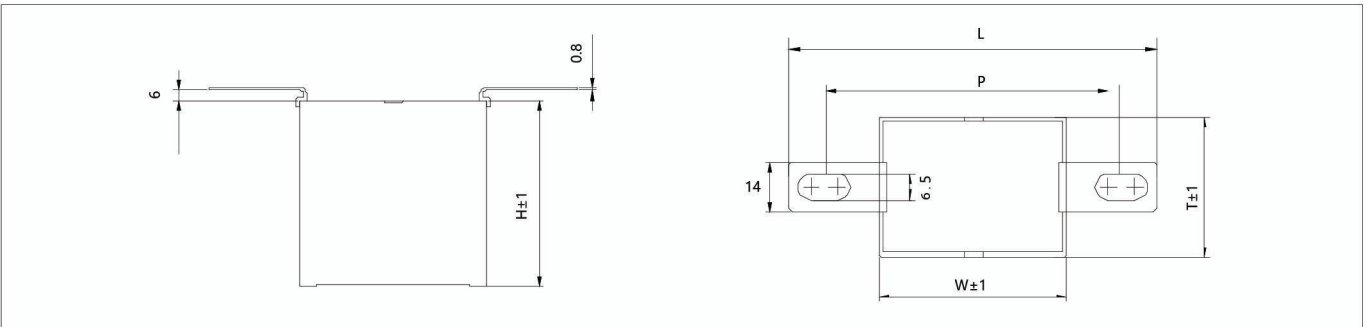
Size chart



Type B2:			Output: M8		
W	L	P	L	P	
42.5	10.5	22 ~ 26	8.5	22 ~ 24	
57.5	10.5	22 ~ 26	23.5	37 ~ 39	



Type B3:			Output: M8		
W	L	P	L	P	
57.5	21	51.5 ~ 62.5			



Type C0:			Output: M6		
W	L	P			
42.5	80.5	60.5 ~ 64.5			
57.5	95.5	75.5 ~ 79.5			



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IGBT SMJ-P series

Snubber capacitor

Part number system

Model			Capacitance			U _N (DC)				Cap. tol	Lead		L			Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
S	~	P	1	0	5	1	2	0	0	J	A	1	1	0	5	0	1
1	~	3	digits:	Model													
4	~	6	digits:	Nominal Capacity													
			e.g. 105= 10×10 ⁵ pF= 1μF														
7	~	10	digits:	U _N (DC)													
			e.g. 1200= 1200VDC														
		11	digits:	Capacitance Tolerance													
			±5% (J) ; ±10% (K)														
12	~	13	digits:	Lead													
			A0; A1; A2; A3														
			B0; B1: B2														
			C0														
			(See the specification sheet)														
14	~	16	digits:	Distance between mounting holes L													
			e.g. 105= 10.5mm; 200= 20.0mm														
17	~	18	digits:	Internal feature code													

Specification table

C _N (μF)	尺寸/Dimension (mm)			ESR @100kHz (mΩ)	ESL (nH)	dv/dt (V/μS)	I _p (A)	I _{rms} @100kHz85°C (A)	Part number
	W	T	H						
U _N 700V.DC	Urms 400V.AC	Us 1050V							
0.47	42.5	24.5	27.5	12	25	500	235	8	S-P4740700*****
0.68	42.5	24.5	27.5	10	25	480	326.4	10	S-P6840700*****
1	42.5	24.5	27.5	8	24	450	450	12	S- P1050700*****
1.5	42.5	33.5	35.5	7	25	430	645	5	S-P1550700^*****
2	42.5	33	35.5	6	24	420	840	15	S-P2050700*****
2.5	42.5	33	45	6	23	400	1000	18	S-P2550700*****
3	42.5	33	45	5.5	22	380	1140	20	S-P3050700*****
3	57.5	30	45	5	26	350	1050	22	S-P3050700*****
3.5	42.5	33	45	5	23	350	1225	25	S-P3550700*****
3.5	57.5	30	45	6	25	300	1050	22	S-P3550700*****
4.7	57.5	35	50	5	28	280	1316	25	S-P4750700*****
5.6	57.5	38	54	4	30	250	1400	25	S-P5650700*****
6	57.5	38	54	3.5	33	230	1380	28	S-P6050700*****
6.8	57.5	42.5	56	3.2	32	220	1496	32	S-P6850700*****
8	57.5	42.5	56	2.8	30	200	1600	33	S-P8050700*****
U _N 1000V.DC	Urms 500V.AC	Us 1500V							
0.47	42.5	24.5	27.5	11	25	1000	470	10	S-P4741000*****
0.68	42.5	24.5	27.5	8	25	800	544	12	S-P6841000*****
1	42.5	33.5	35.5	6	24	800	800	15	S-P10 51000*****
1.5	42.5	33	45	6	24	700	1050	15	S-P1551000*****
2	42.5	33	45	5	22	700	1400	20	S-P2051000*****
2.5	57.5	30	45	5	30	600	1500	22	S-P2551000*****
3	57.5	35	50	4	30	600	1800	25	S-P3051000*****



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Specification table

C _N (μF)	尺寸/Dimension (mm)			ESR @100kHz (mΩ)	ESL (nH)	dv/dt (V/μS)	I _p (A)	I _{rms} @100kHz85°C (A)	Part number
	W	T	H						
U _N 1000V.DC U _{rms} 500V.AC U _s 1500V									
3.3	57.5	35	50	3.5	28	550	1815	25	S-P3351000*****
3.5	57.5	38	54	3.5	28	500	1750	25	S-P3551000*****
4	57.5	38	54	3.2	26	500	2000	28	S-P4051000*****
4.7	57.5	42.5	56	3	25	420	1974	30	S-P4751000*****
5.6	57.5	42.5	56	2.8	24	400	2240	32	S-P5651000*****
U _N 1200V.DC U _{rms} 550V.AC U _s 1800V									
0.47	42.5	24.5	27.5	11	24	1200	564	10	S-P4741200*****
0.68	42.5	33.5	35.5	7	23	1100	748	12	S-P6841200*****
1	42.5	33.5	35.5	6	22	800	800	14	S-P1051200*****
1.5	42.5	33	45	5	20	800	1200	15	S-P1551200*****
2	57.5	30	45	4	30	750	1500	20	S-P2051200*****
2.5	57.5	35	50	4	28	700	1750	25	S-P2551200*****
3	57.5	35	50	4	27	600	1800	25	S-P3051200*****
3.3	57.5	38	54	4	27	550	1815	28	S-P3351200*****
3.5	57.5	38	54	3.5	25	500	1750	28	S-P3551200*****
4	57.5	42.5	56	3.5	25	450	1800	30	S-P4051200*****
4.7	57.5	42.5	56	3.2	23	420	1974	32	S-P4751200*****
U _N 1700V.DC U _{rms} 575V.AC U _s 2250V									
0.33	42.5	24.5	27.5	12	25	1300	429	9	S-P3341700*****
0.47	42.5	24.5	27.5	10	24	1300	611	10	S-P4741700*****
0.68	42.5	33.5	35.5	8	23	1300	884	12	S-P6841700*****
1	42.5	33	45	7	22	1200	1200	15	S-P1051700*****
1.5	42.5	33	45	6	22	1200	1800	18	S-P1551700*****
1.5	57.5	30	45	5	31	1200	1800	20	S-P1551700*****
2	57.5	30	45	5	30	1100	2200	22	S-P2051700*****
2.5	57.5	35	50	4	28	1100	2750	25	S-P2551700*****
3	57.5	38	54	4	27	700	2100	25	S-P3051700*****
3.3	57.5	38	54	3.8	26	600	1980	28	S-P3351700*****
3.5	57.5	42.5	56	3.5	25	500	1750	30	S-P3551700*****
4	57.5	42.5	56	3.2	25	450	1800	32	S-P4051700*****
U _N 2000V.DC U _{rms} 700V.AC U _s 3000V									
0.22	42.5	24.5	27.5	15	25	1500	330	10	S-P2242000*****
0.33	42.5	33.5	35.5	12	24	1500	495	12	S-P3342000*****
0.47	42.5	33.5	35.5	11	23	1400	658	15	S-P4742000*****
0.68	42.5	33	45	8	22	1200	816	18	S-P6842000*****
0.68	57.5	30	45	7	30	1100	748	20	S-P6842000*****
0.82	42.5	33	45	7	28	1200	984	22	S-P8242000*****
1	57.5	30	45	6	28	1100	1100	25	S-P1052000*****
1.5	57.5	35	50	5	25	1000	1500	28	S-P1552000*****
2	57.5	38	54	5	24	800	1600	28	S-P2052000*****
2.2	57.5	42.5	56	4	23	700	1540	32	S-P2252000*****
U _N 3000V.DC U _{rms} 750V.AC U _s 4500V									
0.15	42.5	33	45	18	28	2500	375	25	S-P1543000*****
0.22	42.5	33	45	15	27	2200	484	28	S-P2243000*****
0.22	57.5	35	50	15	25	2000	330	20	S-P2243000*****
0.33	57.5	35	50	12	24	1800	495	20	S-P3343000*****
0.47	57.5	38	54	11	23	1600	752	22	S-P4743000*****
0.68	57.5	42.5	56	8	22	1500	1020	28	S-P6843000*****



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