

CAPACITOR



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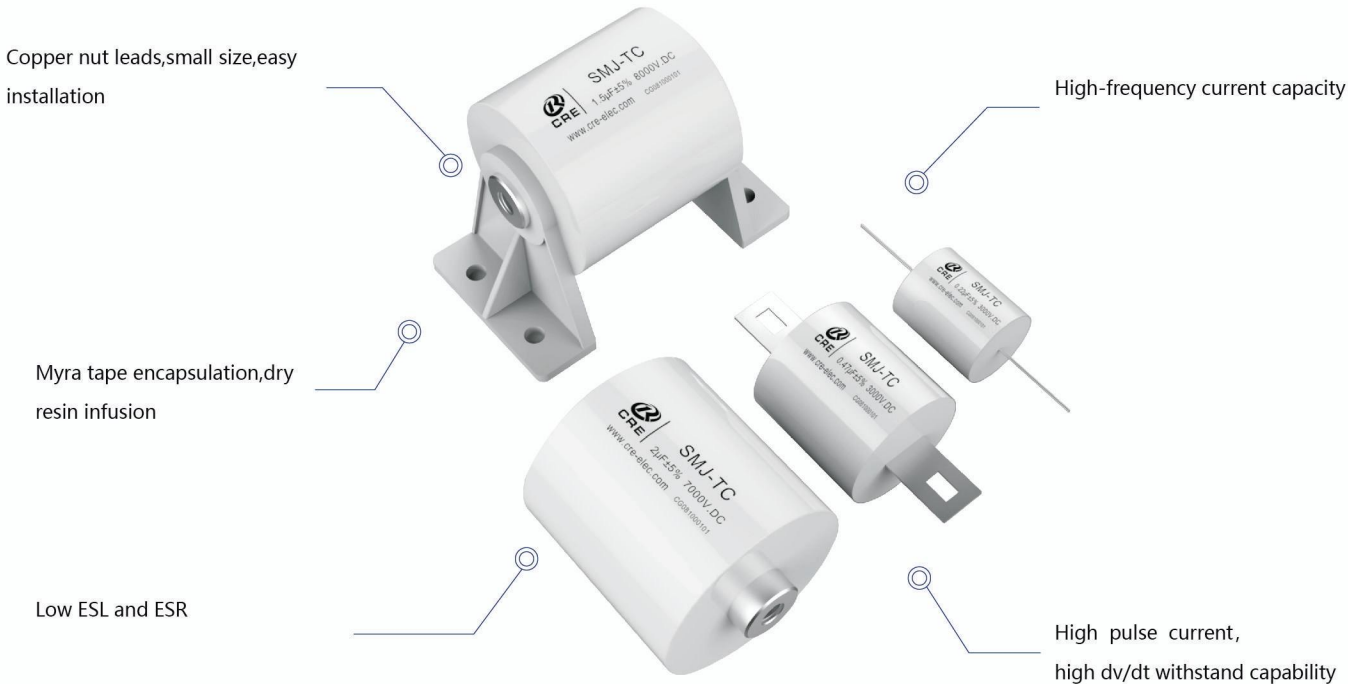
SMJ-TC

IGBT / GTO-Snubber

POWER LINKS SUCCESS

GTO SMJ-TC series

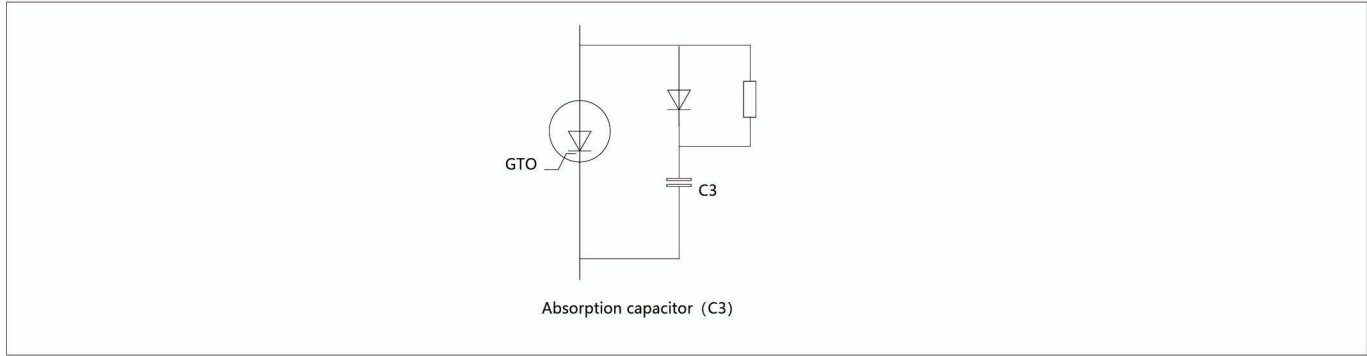
Snubber capacitor



Application

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

The circuit diagram

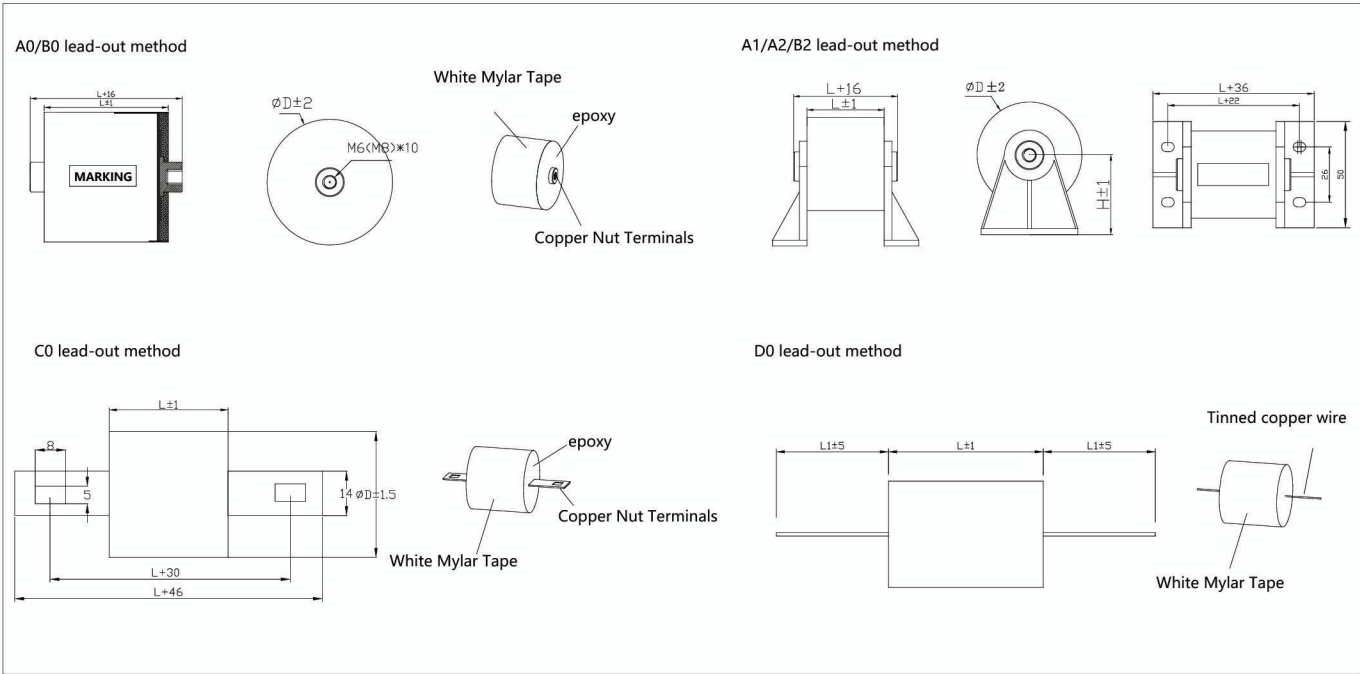


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Technical data

Operating temperature range	Max. Operating temperature. Top, max: +85°C
	Upper category temperature: +85°C
	Lower category temperature: -40°C
(C _N) /Capacitance range	0.22μF~3μF
(U _N) /Rated voltage	3000V.DC~10000V.DC
Cap.tol	±5% (J) ; ±10% (K)
Withstand voltage	1.35U _N /10s
Dissipation factor	tgδ≤0.001 f=1kHz
Insulation resistance	C≤0.33μF R _s ≥15000MΩ (at 20°C 100V.DC 60s)
	C>0.33μF R _s ×C≥5000s (at 20°C 100V.DC 60s)
Withstand strike current	See attached table
Life expectancy	100000h (U _N ; θ _{hotspot} ≤70°C)
Reference standard	IEC61071

The contour map



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GTO SMJ-TC series

Snubber capacitor

Part number system

Model			Capacitance			U _N (DC)					Cap. tol	Length		Lead	mounting bracket	Internal feature code		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
S	T	C	1	0	5	0	7	0	0	0	J	8	0	A	0	0	1	
1	~	3	digits:	Model														
4	~	6	digits:	Nominal Capacity														
				e.g. 105=10×10 ⁵ pF=1μF														
7	~	11	digits:	U _N (DC)														
				e.g. 07000=7000VDC														
			12	digits:	Capacitance Tolerance													
				±5% (J) ; ±10% (K)														
13	~	14	digits:	Length														
				e.g. 80=80mm														
			15	digits:	Lead													
				A: M6×10 screw nut														
				B: M8×10 screw nut														
				C: Plated lead														
				D: Pin lead (φ1.2)														
			16	digits:	mounting bracket													
				0: Non-bracket														
				1: Class 1 bracket (H=35mm)														
				2: Class 2 bracket (H=41mm)														
				3: Class 3 bracket (H=37mm)														
17	~	18	digits:	Internal feature code														



Specification table

续上表

C _N (μF)	φD (mm)	L (mm)	ESL (nH)	dv/dt (V/μS)	I _p (A)	I _{rms} (A)	Part number
U _N = 3000V.DC							
0.22	35	44	25	1100	242	30	STC2243000*44****
0.33	43	44	25	1000	330	35	STC3343000*44****
0.47	51	44	22	850	399	45	STC4743000*44****
0.68	61	44	22	800	544	55	STC6843000*44****
1	74	44	20	700	700	65	STC1053000*44****
1.2	80	44	20	650	780	75	STC1253000*44****
1.5	52	70	30	600	900	45	STC1553000*70****
2	60	70	30	500	1000	55	STC2053000*70****
3	73	70	30	400	1200	65	STC3053000*70****
4	83	70	30	350	1400	70	STC4053000*70****
U _N = 6000V.DC							
0.22	43	60	25	1500	330	35	STC2246000*60****
0.33	52	60	25	1200	396	45	STC3346000*60****
0.47	62	60	25	1000	470	50	STC4746000*60****
0.68	74	60	22	900	612	60	STC6846000*60****
1	90	60	22	800	900	75	STC1056000*60****
U _N = 7000V.DC							
0.22	45	57	25	1100	242	30	STC2247000*57****
0.68	36	80	28	1000	680	25	STC6847000*80****
1	43	80	28	850	850	30	STC1057000*80****
1.5	52	80	25	800	1200	35	STC1557000' 80****
1.8	57	80	25	700	1260	40	STC1857000*80****
2	60	80	23	650	1300	45	STC2057000*80****
3	73	80	22	500	1500	50	STC3057000*80****
U _N = 8000V.DC							
0.33	35	90	30	1100	363	25	STC3348000*90****
0.47	41	90	28	1000	470	30	STC4748000*90****
0.68	49	90	28	850	578	35	STC6848000*90****
1	60	90	25	800	800	40	STC1058000*90****
1.5	72	90	25	700	1050	45	STC1558000*90****
2	83	90	25	650	1300	50	STC2058000*90****
U _N = 10000V.DC							
0.33	45	114	35	1500	495	30	STC33410000*114****
0.47	54	114	35	1300	611	35	STC47410000*114****
0.68	65	114	35	1200	816	40	STC68410000*114****
1	78	114	30	1000	1000	55	STC10510000*114****
1.5	95	114	30	800	1200	70	STC15510000*114****

