

TC86 Series  
IGBT Snubber Capacitor

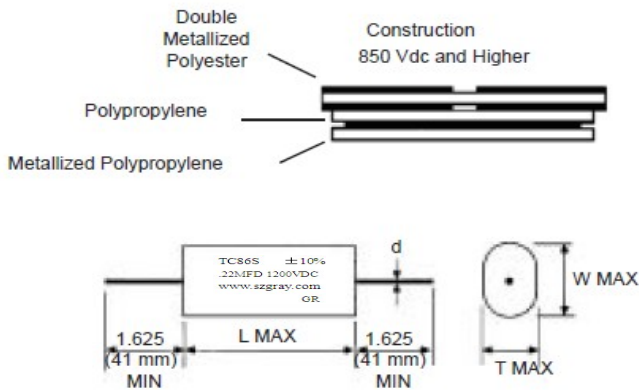
TC86 IGBT缓冲电容

### \*产品简介 (General Description)

介质材料 (Dielectric):	聚丙烯膜 (Metallized Polypropylene)
外壳结构 (Case):	胶带 (polyester tape)
引出端头 (Terminals):	Axial leaded, Lug terminals
内部结构 (Technology):	阻燃树脂填充无感干式结构 (No-Inductive, Dry Film)
工作温度 (Work Temperature):	- 40 ~ + 105°C
产品特性 (Performance):	High dV/dt, Low ESR and ESL
产品应用 (Application):	IGBT吸收保护、高纹波电路



### \* 外形尺寸(Drawing)

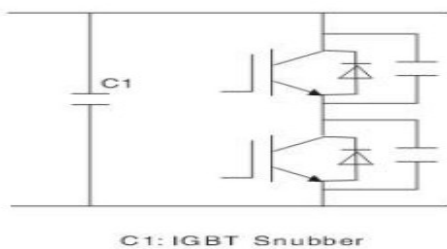


采用聚丙烯双面金属膜;具有自愈性,耐高尖峰电流及高电压的上升速率;本具有相当低等效串联电阻的特性,同时还可以耐非常高的频率和电压。

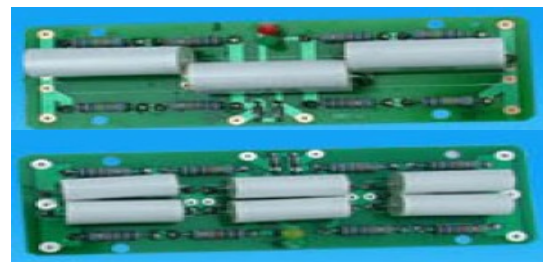
Oval film capacitors use polypropylene film and dual metallized electrodes for both self healing and high peak current carrying capability (dV/dt).

This series features low ESR characteristics, excellent high frequency and high voltage capabilities.

### \* 应用线路 (Typical circuit)



图一、IGBT保护电路



图二、阻容吸收电路

### \* 电气性能(Electrical Characteristics)

容值范围(Cn,Capacitance range):	4.7 nF to 10 $\mu$ F	
容量偏差(Tolerance):	$\pm 10\%$	
工作电压(Urms,Rated AC Voltage):	700 to 3000Vdc (300 to 750Vac)	
极间耐电压(UTT):	1.5 * Un @ 60s	
电极与外壳耐压(UTC):	2.0 * Un @ 25°C,5 Sec.	
I.R. @ 25°C	$C \leq 0.33\mu\text{F}$	$C > 0.33\mu\text{F}$
	$\geq 50,000\text{Mohm}$	$\geq 30,000\text{Mohm}$

\*\* UTT: Test voltage between terminals

\*\* UTC: Test voltage between terminals with case

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\* 标准产品电气性能表(Standard Electrical Data)

容量 Cap.	产品代码 Part Number	Ipeak (A)	Irms (A)	ESL	ESR	dv/dt	DIMENSION Unit: mm		
							L	T	W
<b>850 Vdc (450 Vac)</b>									
0.15	TC86S15K85C	117	6.7	8	18	725	34	9.5	14
0.22	TC86S22K85C	285	7.4	8	19	725	34	11.3	16.5
0.33	TC86S33K85C	352	8.9	7	21	725	34	14	17.8
0.47	TC86S47K85C	368	11.6	5	22	725	34	17	23.5
0.68	TC86S68K85C	400	11.8	4	25	725	34	22	28.5
1.00	TC86S105K85C	420	12.1	3	26	411	46	17	26
1.50	TC86S155K85C	480	13.7	3	28	411	46	21	30.5
2.00	TC86S205K85C	550	17.6	3	28	411	46	24	34
2.50	TC86S255K85C	600	21.3	3	30	411	46	27	36.8
3.00	TC86S305K85C	617	25.3	3	31	420	46	35	
<b>1000Vdc (500Vac)</b>									
0.15	TC86S15K10A	125	7.6	8	20	837	34	10	14.5
0.22	TC86S22K10A	228	8.7	7	22	837	34	12.5	17
0.33	TC86S33K10A	395	9.5	7	22	837	34	14	17.8
0.47	TC86S47K10A	450	11.8	7	23	837	34	19	25
0.68	TC86S68K10A	550	13.5	5	25	837	34	25	32
1.00	TC86S105K10A	630	13.7	4	25	457	46	20	30.5
1.50	TC86S155K10A	780	17.8	5	31	457	46	23.5	34
2.00	TC86S205K10A	920	22.7	4	32	457	46	27	35.4
<b>1200 Vdc (500 Vac)</b>									
0.1	TC86S10K12A	228	7.1	7	20	1213	34	11	18
0.15	TC86S15K12A	275	8.5	7	20	1213	34	14	20
0.22	TC86S22K12A	338	9.3	7	23	1174	34	17	23
0.33	TC86S33K12A	400	10.4	7	23	627	46	14	23
0.47	TC86S47K12A	540	12.3	6	25	627	46	17	27
0.68	TC86S68K12A	630	15.4	5	28	627	46	21	31
1.00	TC86S105K12A	750	15.7	5	31	650	46	25	35
1.50	TC86S155K12A	820	17.9	4	31	540	46	30	40
2.00	TC86S205K12A	900	22.3	4	33	540	58	29.7	
3.00	TC86S305K12A	980	23.4	3	35	540	58	34	
<b>2000 Vdc (630 Vac)</b>									
0.1	TC86S10K20A	175	9.4	12	20	940	36	15	22
0.15	TC86S15K20A	227	9.7	10	22	940	36	17	23
0.22	TC86S22K20A	280	10.7	7	25	940	36	20	25
0.33	TC86S33K20A	312	11.8	7	28	940	36	23	30
0.47	TC86S47K20A	445	15.1	6	30	811	36	25	31
1.00	TC86S105K20A	741	19.7	6	38	740	58	24	34

注：仅举部分产品，可根据客户要求定做！