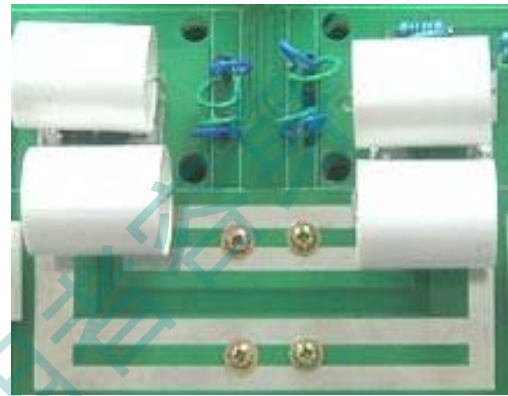


DAWN capacitors

IGBT SERIES

高频高压无感IGBT保护电容器

用于：IGBT模块保护吸收



应用：

IGBT模块突波吸收，高频、大电流、高脉冲线路

材料特性：双面金属化聚丙烯（PP）薄膜

封装：阻燃工程塑胶外壳，阻燃环氧树脂填充

尺寸：参考下页资料（可按客户需求定制特殊规格）



电气特性：

电容量：0.047 μ F to 5.6 μ F，参考表格数据

额定电压：700, 850, 1000, 1200, 1500, 2000, 2500, 3000VDC

损耗角正切：测试条件 1000 \pm 20 Hz, 25 \pm 5 $^{\circ}$ C.
 $C_r \leq 1.5 \mu$ F, 4×10^{-4} ; $C_r > 1.5 \mu$ F, 7×10^{-4}

绝缘电阻：3000s, $s = M\Omega \cdot \mu$ F

测试条件 1 minute, 100Vdc (25 \pm 5 $^{\circ}$ C)

耐电压：2Ur (DC) 测试条件 10s, $t_{25\pm 5^{\circ}C}$, 1Min
工作温度：-40 \sim +85 $^{\circ}$ C

最大许可环境温度：+70 $^{\circ}$ C（额定功率、电流，自然散热条件下工作）

电容量对时间的变化：-3%，

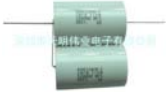
30,000 小时（有效电压工作状态），

或100,000 hours（额定电压工作状态）



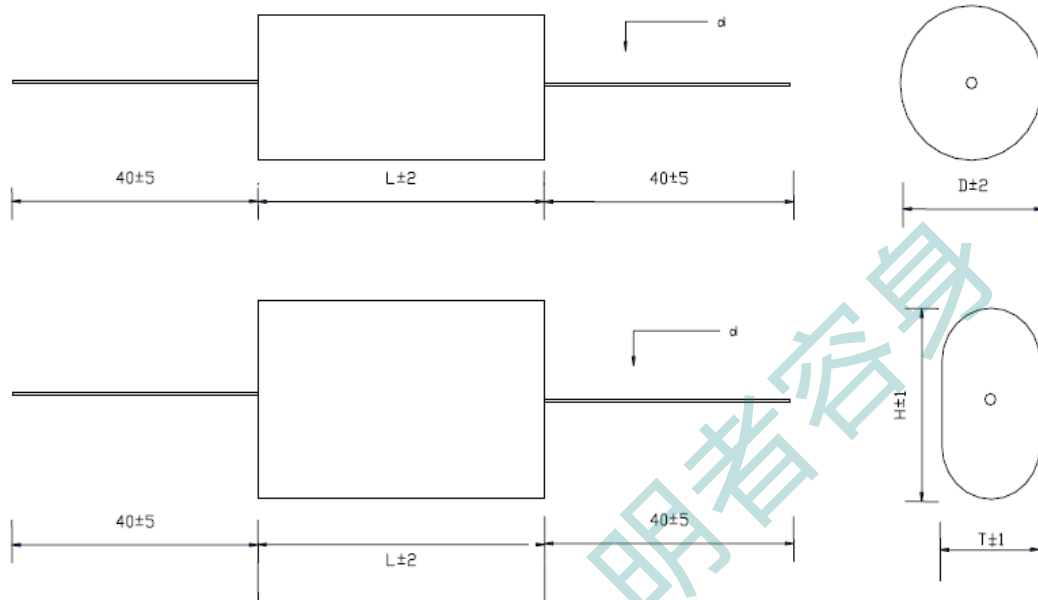
[Http://www.dawn-cap.cn](http://www.dawn-cap.cn)

高频高压电力电子电容器供应商



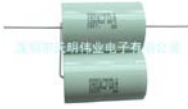
高频高压IGBT无感吸收电容器 (Snubber capacitor for IGBT)

产品结构图:



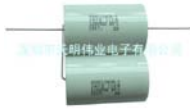
产品规格表:

Part Number	Cap (μF)	Dimension (mm)					du/dt (v/μs)	Ipeak A	Irms max. (A)	ESR (mΩ)
		flat, oval		H	d					
		L	D			T				
Ur 700Vdc, Urms 380Vac, Upk 1000Vdc										
DTS-700-0.33	0.33	32	11.4	8.5	13.3	0.8	185	61	5	7.4
DTS-700-0.47	0.47	32	13.5	9.1	17.1	0.8	185	87	6.5	5.9
DTS-700-0.68	0.68	32	16.3	11.6	19.6	1	185	126	8	4.9
DTS-700-1.0	1	32	19.5	14.7	22.7	1	185	185	9	4.1
DTS-700-1.0	1	44	15.8	11	19	1	130	130	9	4.8
DTS-700-1.5	1.5	32	23.7	17.2	28.4	1	185	278	9	3.5
DTS-700-1.5	1.5	44	19.1	14.2	22.2	1	130	195	9	4.3
DTS-700-2.0	2	44	21.9	15.5	26.7	1	130	260	9	4
DTS-700-2.2	2.2	44	22.9	16.4	27.6	1	130	286	9	3.9
DTS-700-2.5	2.5	44	24.4	17.8	29	1.2	130	325	12	3.5
DTS-700-3.3	3.3	44	27.9	21.1	32.3	1.2	130	429	12	3.1
DTS-700-3.3	3.3	57	23.4	16.9	28.1	1.2	90	297	12	3.9
DTS-700-4.0	4	57	25.7	19.1	30.3	1.2	90	360	12	4.1
DTS-700-4.7	4.7	57	27.8	21.1	32.3	1.2	90	423	12	3.7
DTS-700-5.0	5	44	34.2	27.2	38.4	1.2	130	650	12	3.2
DTS-700-5.6	5.6	44	36.2	29	40.2	1.2	130	728	12	3.1
DTS-700-5.6	5.6	57	30.3	23.4	34.6	1.2	90	504	12	3.4
DTS-700-6.8	6.8	57	33.3	26.3	37.5	1.2	90	612	12	3.1



模块保护电容器 MKP-IGBT-SUNBBER

Part Number	Cap (μF)	Dimension (mm)					du/dt (v/μs)	Ipeak A	Irms max. (A)	ESR (mΩ)
				flat, oval						
		L	D	T	H	d				
DTS-700-8.2	8.2	57	36.5	29.4	40.6	1.2	90	738	12	2.7
DTS-700-10	10	57	40.3	33	44.2	1.2	90	900	12	2.5
Ur 850Vdc, Urms 450Vac, Upk 1200Vdc										
DTS-850-0.15	0.15	32	9.4	6.6	11.4	0.8	300	45	4.5	10
DTS-850-0.22	0.22	32	11.2	8.3	13.1	0.8	300	66	5.5	8.4
DTS-850-0.33	0.33	32	13.5	9.2	17.2	0.8	300	99	7	6.6
DTS-850-0.47	0.47	32	16.3	11.5	19.5	1	300	141	9	5.4
DTS-850-0.68	0.68	32	19.3	14.5	22.5	1	300	204	9	4.3
DTS-850-0.68	0.68	44	15.6	10.9	18.9	1	200	136	9	5.4
DTS-850-1.0	1	32	23.3	16.8	28	1.2	300	300	12	3.2
DTS-850-1.0	1	44	18.7	13.9	21.9	1.2	200	200	9	4.3
DTS-850-1.5	1.5	44	22.7	16.2	27.4	1.2	200	300	12	3.5
DTS-850-2.2	2.2	44	27.3	20.6	31.8	1.2	200	440	12	2.9
DTS-850-2.2	2.2	57	23	16.5	27.7	1.2	110	242	12	4.3
DTS-850-2.5	2.5	44	29.1	22.3	33.5	1.2	200	500	12	2.7
DTS-850-2.5	2.5	57	24.4	17.9	29.1	1.2	110	275	12	4.1
DTS-850-3.0	3	44	31.8	24.9	36.1	1.2	200	600	12	2.4
DTS-850-3.0	3	57	26.7	20	31.2	1.2	110	330	12	3.6
DTS-850-3.3	3.3	57	28	21.2	32.4	1.2	110	363	12	3.5
DTS-850-4.7	4.7	57	33.3	26.2	37.4	1.2	110	517	12	3.1
DTS-850-5.0	5	57	34.3	27.2	38.4	1.2	110	550	12	2.7
DTS-850-5.6	5.6	57	36.2	29.1	40.3	1.2	110	616	12	2.5
DTS-850-6.8	6.8	57	39.9	32.6	43.8	1.2	110	748	12	2.3
Ur 1000Vdc, Urms 480Vac, Upk 1400Vdc										
DTS-1000-0.068	0.068	32	7.7	4.9	9.7	0.8	340	23	3	18
DTS-1000-0.10	0.1	32	9	6.2	11	0.8	340	34	3.5	14
DTS-1000-0.15	0.15	32	10.8	8	12.8	0.8	340	51	4.5	10.3
DTS-1000-0.22	0.22	32	12.9	8.6	16.6	0.8	340	75	5.5	7.7
DTS-1000-0.33	0.33	32	15.9	11.2	19.2	1	340	112	7.5	5.8
DTS-1000-0.47	0.47	32	18.8	13.9	21.9	1	340	160	9	4.6
DTS-1000-0.47	0.47	44	15.2	10.5	18.5	1	225	106	9	5.8
DTS-1000-0.68	0.68	32	22.4	16	27.2	1	340	231	9	3.8
DTS-1000-0.68	0.68	44	18	13.2	21.2	1	225	153	9	4.9
DTS-1000-1.0	1	44	21.7	15.3	26.5	1.2	225	225	12	3.9
DTS-1000-1.5	1.5	44	26.4	19.7	30.9	1.2	225	338	12	3.1
DTS-1000-1.5	1.5	57	22.2	15.7	26.9	1.2	135	203	12	4.1
DTS-1000-2.0	2	44	30.3	23.5	34.7	1.2	225	450	12	2.6
DTS-1000-2.0	2	57	25.5	18.8	30	1.2	135	270	12	3.9
DTS-1000-2.2	2.2	44	31.8	24.9	36.1	1.2	225	495	12	3.1
DTS-1000-2.5	2.5	44	33.9	26.8	38	1.2	225	563	12	2.9
DTS-1000-2.5	2.5	57	28.4	21.6	32.8	1.2	135	338	12	3.5
DTS-1000-3.0	3	57	31	24.1	35.3	1.2	135	405	12	3.1



模块保护电容器 MKP-IGBT-SUNBBER

Part Number	Cap (μF)	Dimension (mm)					du/dt (v/μs)	Ipeak A	Irms max. (A)	ESR (mΩ)
				flat, oval						
		L	D	T	H	d				
DTS-1000-3.3	3.3	57	32.5	25.5	36.7	1.2	135	446	12	3
DTS-1000-4.0	4	57	35.7	28.6	39.8	1.2	135	540	12	2.7
DTS-1000-4.7	4.7	57	38.7	31.5	42.7	1.2	135	635	12	2.4
Ur 1200Vdc, Urms 500Vac, Upk 1600Vdc										
DTS-1200-0.10	0.1	32	10.7	7.8	12.6	0.8	390	39	3.5	13.5
DTS-1200-0.22	0.22	32	15.7	11	19	0.8	390	86	6.5	7.1
DTS-1200-0.33	0.33	32	19	14.2	22.2	1	390	129	8.5	5.3
DTS-1200-0.33	0.33	44	14.3	9.9	17.9	1	255	84	7.5	6.1
DTS-1200-0.47	0.47	32	22.5	16.1	27.3	1	390	183	9	3.7
DTS-1200-0.47	0.47	44	17.2	12.4	20.4	1	255	120	9	5.6
DTS-1200-0.68	0.68	44	20.5	15.6	23.6	1	255	173	9	4.9
DTS-1200-1.0	1	44	24.7	18.1	29.3	1.2	255	255	12	4.1
DTS-1200-1.2	1.2	44	26.9	20.2	31.4	1.2	255	306	12	3.7
DTS-1200-1.5	1.5	44	30	23.2	34.4	1.2	255	383	12	3.2
DTS-1200-1.5	1.5	57	25.2	18.6	29.8	1.2	150	225	12	4.2
DTS-1200-2.0	2	57	29	22.2	33.4	1.2	150	300	12	3.6
DTS-1200-2.2	2.2	57	30.4	23.5	34.7	1.2	150	330	12	3.4
DTS-1200-2.5	2.5	57	32.4	25.4	36.6	1.2	150	375	12	3
DTS-1200-3.0	3	57	35.4	28.3	39.5	1.2	150	450	12	2.7
DTS-1200-3.3	3.3	57	37.1	29.9	41.1	1.2	150	495	12	2.6
Ur 1500Vdc, Urms 575Vac, Upk 2000Vdc										
DTS-1500-0.068	0.068	32	10.5	7.6	12.4	0.8	490	33	3.5	16.1
DTS-1500-0.10	0.1	32	12.5	8.2	16.2	0.8	490	49	4.5	12
DTS-1500-0.15	0.15	32	15.4	10.7	18.7	1	490	74	6	8.7
DTS-1500-0.22	0.22	32	18.4	13.6	21.6	1	490	108	8	6.5
DTS-1500-0.22	0.22	44	14.6	10.2	18.2	1	320	70	7.5	8.5
DTS-1500-0.33	0.33	32	22.3	15.9	27.1	1	490	162	9	4.7
DTS-1500-0.33	0.33	44	17.9	13.1	21.1	1	320	106	9	6.4
DTS-1500-0.47	0.47	44	21.2	14.9	26.1	1.2	320	150	12	5.1
DTS-1500-0.68	0.68	44	25.4	18.8	30	1.2	320	218	12	4.4
DTS-1500-1.0	1	44	30.7	23.8	35	1.2	320	320	12	3.3
DTS-1500-1.0	1	57	25.7	19.1	30.3	1.2	210	210	12	5.1
DTS-1500-1.2	1.2	57	28.1	21.3	32.5	1.2	210	252	12	4.5
DTS-1500-1.5	1.5	57	31.3	24.4	35.6	1.2	210	315	12	3.9
DTS-1500-2.0	2	57	36.1	29	40.2	1.2	210	420	12	3.3
DTS-1500-2.2	2.2	57	37.8	30.6	41.8	1.2	210	462	12	3.2
Ur 2000Vdc, Urms 630Vac, Upk 2400Vdc										
DTS-2000-0.047	0.047	32	10.4	7.6	12.4	0.8	650	31	3	20.5
DTS-2000-0.068	0.068	32	12.4	9.5	14.3	0.8	650	44	4	15
DTS-2000-0.10	0.1	32	15.1	10.4	18.4	0.8	650	65	5.5	11.6
DTS-2000-0.15	0.15	32	18.2	13.4	21.4	1	650	98	7.5	8.2
DTS-2000-0.15	0.15	44	14.5	10.1	18.1	1	410	62	6.5	10



模块保护电容器 MKP-IGBT-SUNBBER

Part Number	Cap (μF)	Dimension (mm)					du/dt (v/μs)	Ipeak A	Irms max. (A)	ESR (mΩ)
		L	D	flat, oval		d				
				T	H					
DTS-2000-0.22	0.22	32	21.9	15.5	26.7	1	650	143	9	5.7
DTS-2000-0.22	0.22	44	17.6	12.8	20.8	1	410	90	9	7.2
DTS-2000-0.33	0.33	44	21.4	15	26.2	1.2	410	135	12	5.5
DTS-2000-0.47	0.47	44	25.3	18.7	29.9	1.2	410	193	12	4.5
DTS-2000-0.56	0.56	44	27.6	20.8	32	1.2	410	230	12	3.7
DTS-2000-0.68	0.68	44	30.3	23.5	34.7	1.2	410	279	12	3.7
DTS-2000-0.68	0.68	57	25.4	18.8	30	1.2	225	153	12	5.4
DTS-2000-1.0	1	57	30.7	23.8	35	1.2	225	225	12	4.3
DTS-2000-1.5	1.5	57	37.5	30.3	41.5	1.2	225	338	12	3.5
Ur 2500Vdc, Urms 700Vac, Upk 3000Vdc										
DTS-2500-0.033	0.033	32	11.5	8.7	13.5	0.8	870	29	3	26
DTS-2500-0.047	0.047	32	13.6	9.3	17.3	0.8	870	41	4	19.1
DTS-2500-0.068	0.068	32	16.5	11.7	19.7	0.8	870	59	5	14.5
DTS-2500-0.10	0.1	32	19.8	14.9	22.9	1	870	87	6	11
DTS-2500-0.10	0.1	44	15.9	11.2	19.2	1	550	55	7	14.2
DTS-2500-0.15	0.15	32	24	17.5	28.7	1	870	131	8.5	7.6
DTS-2500-0.15	0.15	44	19.3	14.4	22.4	1	550	83	7.5	9.3
DTS-2500-0.22	0.22	44	23.2	16.7	27.9	1.2	550	121	10	6.8
DTS-2500-0.33	0.33	44	28.2	21.4	32.6	1.2	550	182	12	5.2
DTS-2500-0.39	0.39	44	30.6	23.7	34.9	1.2	550	215	12	4.6
DTS-2500-0.47	0.47	44	33.6	26.5	37.7	1.2	550	259	12	4.2
DTS-2500-0.47	0.47	57	28.1	21.4	32.6	1.2	280	132	12	5.8
DTS-2500-0.68	0.68	57	33.7	26.7	37.9	1.2	280	190	12	4.8
DTS-2500-1.0	1	57	40.8	33.5	44.7	1.2	280	280	12	3.9
Ur 3000Vdc, Urms 750Vac, Upk 3500Vdc										
DTS-3000-0.010	0.01	32	8.3	5.5	10.3	0.8	1200	12	1.5	68
DTS-3000-0.022	0.022	32	11.8	8.9	13.7	0.8	1200	26	2	31.5
DTS-3000-0.033	0.033	32	14.2	9.8	17.8	0.8	1200	40	3	22
DTS-3000-0.047	0.047	32	17.1	12.3	20.3	1	1200	56	5	16
DTS-3000-0.068	0.068	32	20.3	15.4	23.4	1	1200	82	7	12
DTS-3000-0.068	0.068	44	16.4	11.6	19.6	1	750	51	6	15
DTS-3000-0.10	0.1	44	19.7	14.8	22.8	1	750	75	7.5	11
DTS-3000-0.12	0.12	44	21.5	15.1	26.3	1.2	750	90	8	10
DTS-3000-0.15	0.15	44	23.9	17.4	28.6	1.2	750	113	10	8
DTS-3000-0.18	0.18	44	26.1	19.4	30.6	1.2	750	135	10	7
DTS-3000-0.22	0.22	44	28.8	22	33.2	1.2	750	165	12	6
DTS-3000-0.22	0.22	57	24.2	17.6	28.8	1.2	370	81	12	7.7
DTS-3000-0.33	0.33	57	29.4	22.6	33.8	1.2	370	122	12	6.2
DTS-3000-0.47	0.47	57	35	27.9	39.1	1.2	370	174	12	5.5
DTS-3000-0.56	0.56	57	38.2	31	42.2	1.2	370	207	12	5.1