

MKP-HA (Snubber)



■ 特性 Features

安装简单快捷；

耐压高，损耗小，温升低；

高 dv/dt 承受力

Easy mounting;

High withstanding voltage capability, self-healing property;

Low dissipation low temperature rise;

High dv/dt strength

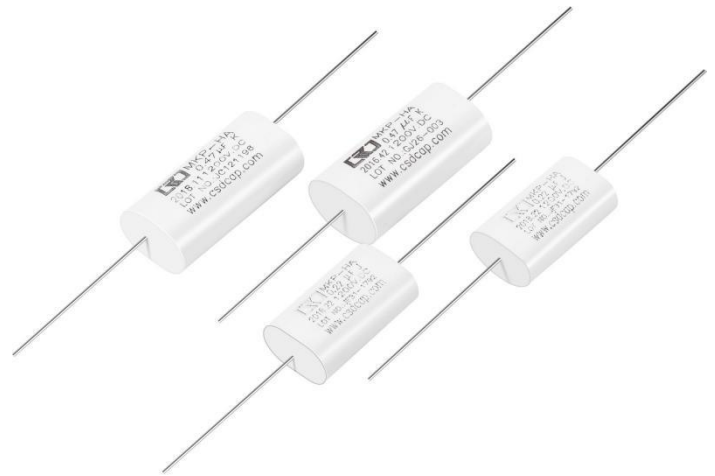
■ 用 APPLICATION

IGBT 缓冲吸收

电力电子设备中尖峰电压、尖峰电流吸收保护

IGBT snubbing

Used in power electronics equipment to absorb and protect from peak voltage and peak current when the switching device is turned off.



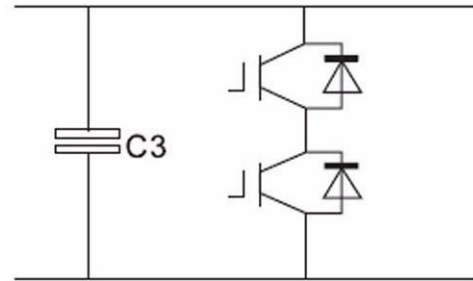
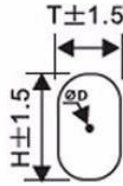
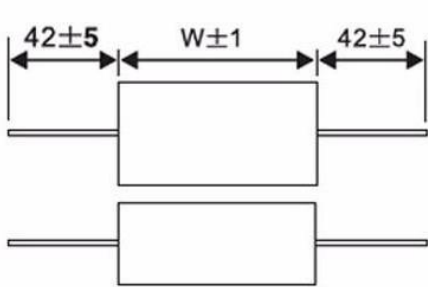
■ 性能参数 Technical data

项目 Item	性能 Performance Characteristics	
使用温度范围 Operating Temperature range	-40 +105°C	
贮存温度范围 Storage Temperature range	-40 +105°C	
额定电压 Rated Voltage Range	630~2000V.DC	
额定容量 Rated Capacity	0.1~5 μ F	
静电容量范围 Capacitance Tolerance	± 5% (J) / ± 10% (K)	
介质损耗 (tanδ) Dissipation Factor (tan δ)	≤ 0.0015 at 20°C, 1K Hz	
耐电压 Voltage Proof	极间 V _{tt}	1.5U _n (10S,20°C ± 5°C)
	极壳 V _{t-c}	---
杂散电感 ESL	≤ 40nH	
绝缘电阻 IR	≥ 5000s at 100VDC/60S	
耐久性试验 Endurance	测试条件: 温度 85°C ± 3°C; 施加额定电压 U _n ; 试验时间 1000h.	
	静电容量变化 Capacitance change ΔC/C ₀ < 10%	
预期寿命 Life	100000h (可参考寿命曲线图)	



MKP-HA (Snubber)

尺寸图 Dimension 典型线路图 Typical Circuit



Snubber Capacitors (C3)

UN=85°C 630VDC

Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	L \pm 5	d \pm 0.5	dv/dt (V/ μ s)	tan θ		Part Number
							1kHz	10kHz	
0.22	34	20	11	40	1.0	900	0.0010	0.0015	
0.33	34	21	12	40	1.0	900	0.0010	0.0015	
0.47	34	22.5	14.5	40	1.0	900	0.0010	0.0015	
0.68	34	26	18	40	1.2	900	0.0010	0.0015	
1.0	37	24	16	40	1.2	850	0.0010	0.0015	
2.0	37	32.5	23.5	40	1.2	850	0.0010	0.0015	
2.2	37	33	24.5	40	1.2	850	0.0010	0.0015	
3.0	37	38	29.5	40	1.2	850	0.0010	0.0015	
3.3	44	33	25	40	1.2	800	0.0010	0.0015	
4.7	44	39	31	40	1.2	800	0.0010	0.0015	

UN=85°C 1200VDC

Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	L \pm 5	d \pm 0.5	dv/dt (V/ μ s)	tan θ		Part Number
							1kHz	10kHz	
0.1	34	16	8.5	40	1.0	1200	0.0010	0.0015	
0.1	27	15	10	40	1.0	2200	0.0010	0.0015	
0.15	34	17	10	40	1.0	1200	0.0010	0.0015	
0.22	34	21	12	40	1.0	1200	0.0010	0.0015	
0.33	34	24	16	40	1.0	1200	0.0010	0.0015	
0.47	34	25	19	40	1.2	1200	0.0010	0.0015	
0.47	44	22	16	40	1.2	1000	0.0010	0.0015	
0.68	44	29	18	40	1.2	1000	0.0010	0.0015	
0.68	57	22.5	13.5	40	1.2	900	0.0010	0.0015	
1.0	44	32	22	40	1.2	1000	0.0010	0.0015	
1.0	57	25	16	40	1.2	900	0.0010	0.0015	
1.5	44	38	27	40	1.2	1000	0.0010	0.0015	
1.5	57	31	23	40	1.2	900	0.0010	0.0015	
2	57	34	24	40	1.2	900	0.0010	0.0015	
2.5	57	37	27.5	40	1.2	900	0.0010	0.0015	
3	57	41	31	40	1.2	900	0.0010	0.0015	



MKP-HA (Snubber)

UN=85°C 1600VDC									
Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	L \pm 5	d \pm 0.5	dv/dt (V/ μ s)	tan θ		Part Number
							1kHz	10kHz	
0.1	34	14.5	9	40	1.0	2000	0.0010	0.0015	
0.15	34	17	11	40	1.0	2000	0.0010	0.0015	
0.22	34	20	13	40	1.0	2000	0.0010	0.0015	
0.33	34	23	17	40	1.2	2000	0.0010	0.0015	
0.33	44	20	13	40	1.2	1000	0.0010	0.0015	
0.47	34	27	21	40	1.2	2000	0.0010	0.0015	
0.47	44	23	16	40	1.2	1000	0.0010	0.0015	
0.68	34	32	25	40	1.2	2000	0.0010	0.0015	
0.68	44	27	20	40	1.2	1000	0.0010	0.0015	
1	44	31	25	40	1.2	1000	0.0010	0.0015	
1	57	26	20	40	1.2	900	0.0010	0.0015	
1.5	44	38	32	40	1.2	1000	0.0010	0.0015	
1.5	57	31	25	40	1.2	900	0.0010	0.0015	
2	57	36	29	40	1.2	900	0.0010	0.0015	
2.5	57	40	33	40	1.2	900	0.0010	0.0015	
UN=85°C 2000VDC									
Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	L \pm 5	d \pm 0.5	dv/dt (V/ μ s)	tan θ		Part Number
							1kHz	10kHz	
0.1	34	17	11	40	1.0	2200	0.0010	0.0015	
0.15	34	20	13	40	1.0	2200	0.0010	0.0015	
0.22	34	23	17	40	1.2	2200	0.0010	0.0015	
0.22	44	20	13	40	1.2	1000	0.0010	0.0015	
0.33	34	28	21	40	1.2	2200	0.0010	0.0015	
0.33	44	23	17	40	1.2	1000	0.0010	0.0015	
0.47	44	27	21	40	1.2	1000	0.0010	0.0015	
0.47	57	23	16	40	1.2	900	0.0010	0.0015	
0.68	44	32	25	40	1.2	1000	0.0010	0.0015	
0.68	57	27	20	40	1.2	900	0.0010	0.0015	
1	44	38	32	40	1.2	1000	0.0010	0.0015	
1	57	31	25	40	1.2	900	0.0010	0.0015	
1.5	57	38	31	40	1.2	900	0.0010	0.0015	
2	57	43	37	40	1.2	900	0.0010	0.0015	