



MKP-HS (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.

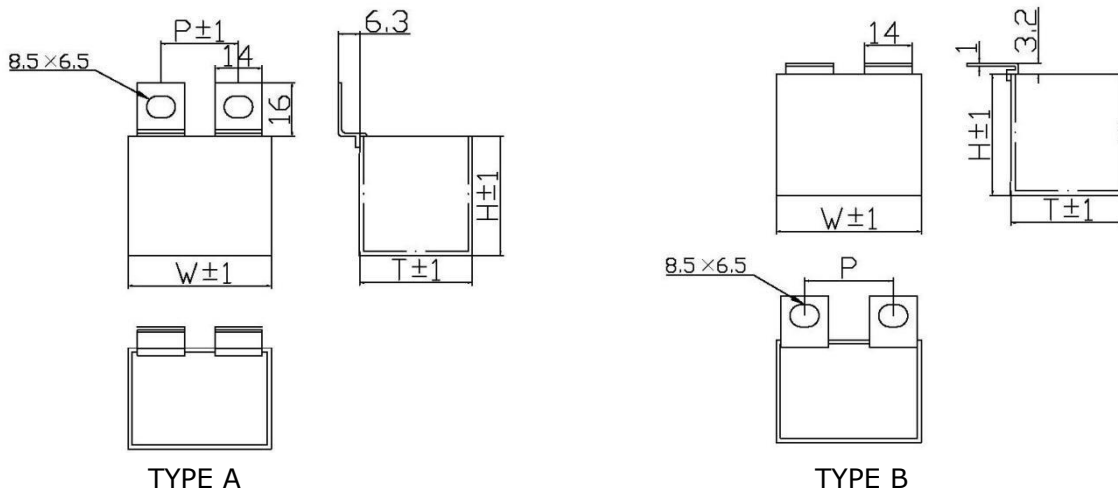


■ 性能参数 Technical data

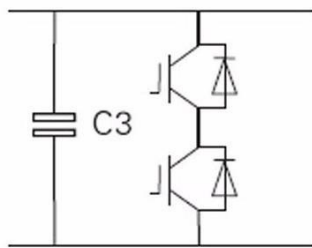
项目 Item	性能 Performance Characteristics	
使用温度范围 Operating Temperature range	-40 +105℃	
贮存温度范围 Storage Temperature range	-40 +105℃	
额定电压 Rated Voltage Range	630V~2000V.DC	
额定容量 Rated Capacity	0.01~5.6 μF	
静电容量范围 Capacitance Tolerance	± 5% (J) / ± 10% (K)	
介质损耗 (tanδ) Dissipation Factor (tan δ)	≤ 0.0015 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 1.3 倍额定电压 U _n ；试验时间 1000h. 静电容量变化 Capacitance change $ \Delta C/C_0 \leq 10\%$	
预期寿命 Life	100000h (可参考寿命曲线图)	

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尺寸图 Dimension



典型线路图 Typical Circuit



Snubber Capacitors(C3)

630VDC/700VDC										
Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	Ls(nH)	\hat{I} (A)	dv/dt (V/ μ s)	$\tan \theta$	ESR(m Ω) @10kHz	Imax (A)	Part Number
							10kHz			
0.68	37	25	14	23	612	900	0.0020	28	9	
1	37	25	14	23	900	900	0.0020	20	12	
1.5	42.5	27.5	24.5	30	900	600	0.0020	13	18	
2.2	42	40	20	30	1320	600	0.0020	9	18	
3.3	42	44	24	30	1980	600	0.0020	7	20	
4.7	42	45	30	30	2820	600	0.0020	5	25	
UN=85 $^{\circ}$ C 1200VDC										
Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	Ls(nH)	\hat{I} (A)	dv/dt (V/ μ s)	$\tan \theta$	ESR(m Ω) @10kHz	Imax (A)	Part Number
							10kHz			
0.33	37	25	14	23	495	1500	0.0020	40	9	
0.33	42.5	27.5	24.5	30	314	950	0.0020	50	7	
0.47	37	30	16	23	705	1500	0.0020	35	11	
0.47	42.5	27.5	24.5	30	447	950	0.0020	40	9	
0.68	37	34	20	23	1020	1500	0.0020	28	13	



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0.68	42.5	35.5	33.5	30	646	950	0.0020	36	11		
1	42.5	35.5	33.5	30	950	950	0.0020	20	16		
1	42	40	20	30	950	950	0.0020	20	16		
1.5	42.5	45	30	30	1425	950	0.0020	13	20		
2	57.5	45	30	34	1200	600	0.0020	10	20		
2.5	57.5	45	30	34	1500	600	0.0020	8	20		
3	57.5	50	35	34	1800	600	0.0020	7	25		
UN=85°C 1600VDC/1700VDC											
Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	Ls(nH)	I $\hat{}$ (A)	dv/dt (V/ μ s)	tan θ		ESR(m Ω) @10kHz	Imax (A)	Part Number
							10kHz				
0.22	37	25	15	23	440	2000	0.0020		60	8	
0.22	42.5	27.5	24.5	30	286	1300	0.0020		70	7	
0.33	37	30	16	23	660	2000	0.0020		40	10	
0.33	42.5	27.5	24.5	30	429	1300	0.0020		50	9	
0.47	37	34	20	23	940	2000	0.0020		35	14	
0.47	42.5	27.5	24.5	30	611	1300	0.0020		40	12	
0.68	42	40	20	30	884	1300	0.0020		30	16	
1	42	45	30	30	1300	1300	0.0020		26	22	
1.5	57.5	45	30	34	1200	800	0.0020		20	20	
2	57.5	45	30	34	1600	800	0.0020		11	20	
2.5	57.5	50	35	34	2000	800	0.0020		9	25	
UN=85°C 2000VDC											
Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	Ls(nH)	I $\hat{}$ (A)	dv/dt (V/ μ s)	tan θ		ESR(m Ω) @10kHz	Imax (A)	Part Number
							10kHz				
0.15	42.5	27.5	24.5	30	195	1300	0.0020		80	7	
0.22	42.5	27.5	24.5	30	286	1300	0.0020		70	8	
0.33	42.5	27.5	24.5	30	429	1300	0.0020		50	14	
0.47	42.5	35.5	33.5	30	611	1300	0.0020		40	18	
0.68	42	45	30	30	884	1300	0.0020		35	20	
1	42.5	45	33	30	1300	1300	0.0020		30	22	
1.5	57.5	50	35	34	1350	900	0.0020		18	26	