



# MKP-RS (Resonance)



■ 特性 Features

耐压高，损耗小，温升低；

高 dv/dt 承受力

高纹波电流承受能力

High withstanding voltage capability, self-healing property;

Low dissipation low temperature rise;

High dv/dt strength

High pulse current capability.



■ 用 APPLICATION

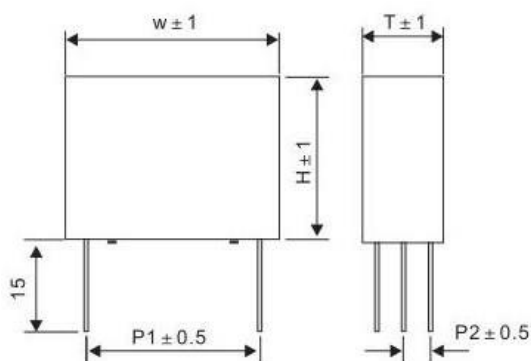
广泛用于电力电子设备中的串/并联谐振电路，以及缓冲吸收电路

Widely used in series/parallel resonant circuits and snubber circuits.

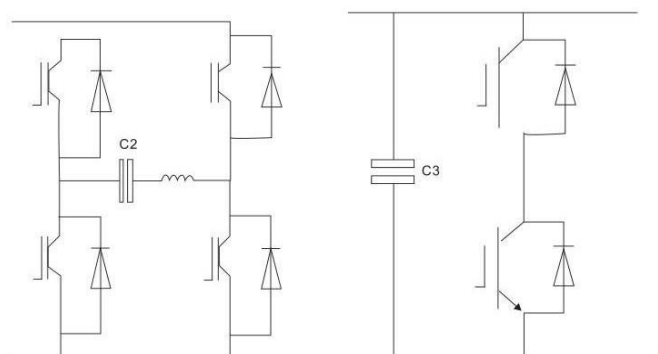
■ 性能参数 Technical data

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	0.01~8 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 <sub>tt</sub>	1.5U <sub>n</sub> (10S, 20°C ± 5°C)
	极壳 V <sub>t-c</sub>	---
杂散电感 ESL	≤ 30nH	
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 <sub>n</sub> ; 试验时间 1000h.	
	静电容量变化 Capacitance change	ΔC/C <sub>0</sub>   ≤ 10%
预期寿命 Life	100000h (可参考寿命曲线图)	

■ 尺寸图 Dimension



典型线路图 Typical Circuit





# MKP-RS (Resonance)

UN=85°C 630VDC										
Cn ( $\mu F$ )	W $\pm$ 1	H $\pm$ 1	T $\pm$ 1	P $\pm$ 0.5	b $\pm$ 0.5	L $\pm$ 3	dv/dt (V/ $\mu s$ )	tan $\theta$		Part Number
								1kHz	10kHz	
223	18	11	5	15	0.8	6	2500	0.0010	0.0015	
333	18	12	6	15	0.8	6	2500	0.0010	0.0015	
473	18	13.5	7.5	15	0.8	6	2500	0.0010	0.0015	
683	18	14.5	8.5	15	0.8	6	2500	0.0010	0.0015	
104	26.5	15	6	15	0.8	6	2500	0.0010	0.0015	
104	26.5	19	10	22.5	0.8	15	1500	0.0010	0.0015	
224	26.5	19	10	22.5	0.8	15	1500	0.0010	0.0015	
334	26.5	22	12	22.5	0.8	15	1500	0.0010	0.0015	
474	26.5	22	12	22.5	0.8	15	1500	0.0010	0.0015	
474	32	22	13	27.5	0.8	15	900	0.0010	0.0015	
684	31	25	14	27.5	0.8	15	900	0.0010	0.0015	
105	32	33	18	27.5	0.8	15	900	0.0010	0.0015	
125	32	33	18	27.5	0.8	15	900	0.0010	0.0015	
UN=85°C 1000VDC										
Cn ( $\mu F$ )	W $\pm$ 1	H $\pm$ 1	T $\pm$ 1	P $\pm$ 0.5	b $\pm$ 0.5	L $\pm$ 3	dv/dt (V/ $\mu s$ )	tan $\theta$		Part Number
								1kHz	10kHz	
102	13	11	5	10	0.6	6	6000	0.0010	0.0015	
472	13	11	5	15	0.6	15	6000	0.0010	0.0015	
472	18	11	5	15	0.8	15	3300	0.0010	0.0015	
822	18	11	5	15	0.8	15	3300	0.0010	0.0015	
103	18	11	5	15	0.8	15	3300	0.0010	0.0015	
153	18	11	5	15	0.8	15	3300	0.0010	0.0015	
223	18	14.5	8.5	15	0.8	15	3300	0.0010	0.0015	
333	18	14.5	8.5	15	0.8	15	3300	0.0010	0.0015	
393	18	16	10	15	0.8	15	3300	0.0010	0.0015	
473	18	19	11	15	0.8	15	3300	0.0010	0.0015	
683	26.5	17	8.5	22.5	0.8	15	2100	0.0010	0.0015	
104	26.5	20	11	22.5	0.8	15	2100	0.0010	0.0015	
104	32	18	9	27.5	0.8	15	1000	0.0010	0.0015	
224	32	22	13	27.5	0.8	15	1000	0.0010	0.0015	
334	32	28	14	27.5	0.8	15	1000	0.0010	0.0015	
474	32	33	18	27.5	0.8	15	1000	0.0010	0.0015	
UN=85°C 1200VDC 待补充完善 (全部未看)										
Cn ( $\mu F$ )	W $\pm$ 1	H $\pm$ 1	T $\pm$ 1	P $\pm$ 0.5	b $\pm$ 0.5	L $\pm$ 3	dv/dt (V/ $\mu s$ )	tan $\theta$		Part Number
								1kHz	10kHz	
472	18	11	5	15	0.8	15	3400	0.0010	0.0015	
103	18	13.5	6	15	0.8	15	3400	0.0010	0.0015	
223	18	13.5	7.5	15	0.8	15	3400	0.0010	0.0015	
333	18	14.5	8.5	15	0.8	15	3400	0.0010	0.0015	
473	18	19	11	15	0.8	15	3400	0.0010	0.0015	
473	26.5	16.5	7	22.5	0.8	15	2200	0.0010	0.0015	
683	26.5	18	10	22.5	0.8	15	2200	0.0010	0.0015	



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UN=85°C 1200VDC 待补充完善 (全部未看)										
Cn ( $\mu$ F)	W $\pm$ 1	H $\pm$ 1	T $\pm$ 1	P $\pm$ 0.5	b $\pm$ 0.5	L $\pm$ 3	dv/dt (V/ $\mu$ s)	tan $\theta$		Part Number
								1kHz	10kHz	
224	32	22	13	27.5	0.8	27.5	1200	0.0010	0.0015	
334	32	28	18	27.5	1	27.5	1200	0.0010	0.0015	
474	32	33	18	27.5	1	27.5	1200	0.0010	0.0015	
684	32	37	22	27.5	1	27.5	1200	0.0010	0.0015	
105										
UN=85°C 1600VDC										
Cn ( $\mu$ F)	W $\pm$ 1	H $\pm$ 1	T $\pm$ 1	P $\pm$ 0.5	b $\pm$ 0.5	L $\pm$ 3	dv/dt (V/ $\mu$ s)	tan $\theta$		Part Number
								1kHz	10kHz	
222	18	11	5	15	0.8	15	6000	0.0010	0.0015	
332	18	11	5	15	0.8	15	6000	0.0010	0.0015	
472	18	11	5	15	0.8	15	6000	0.0010	0.0015	
682	18	11	5	15	0.8	15	6000	0.0010	0.0015	
103	18	12	6	15	0.8	15	6000	0.0010	0.0015	
153	18	13.5	7.5	15	0.8	15	6000	0.0010	0.0015	
223	26.5	15	6	22.5	0.8	15	3000	0.0010	0.0015	
333	26.5	16.5	7	22.5	0.8	15	3000	0.0010	0.0015	
473	26.5	19	10	22.5	0.8	15	3000	0.0010	0.0015	
473	32	18	9	27.5	0.8	15	2000	0.0010	0.0015	
683	26.5	19	10	22.5	0.8	15	3000	0.0010	0.0015	
683	32	18	9	27.5	0.8	15	2000	0.0010	0.0015	
104	32	20	11	27.5	0.8	15	2000	0.0010	0.0015	
224	32	33	18	27.5	0.8	15	2000	0.0010	0.0015	
334	32	33	18	27.5	0.8	15	2000	0.0010	0.0015	
UN=85°C 2000VDC										
Cn ( $\mu$ F)	W $\pm$ 1	H $\pm$ 1	T $\pm$ 1	P $\pm$ 0.5	b $\pm$ 0.5	L $\pm$ 3	dv/dt (V/ $\mu$ s)	tan $\theta$		Part Number
								1kHz	10kHz	
102	18	11	5	15	0.8	15	10000	0.0010	0.0015	
152	18	11	5	15	0.8	15	10000	0.0010	0.0015	
332	18	11	5	15	0.8	15	10000	0.0010	0.0015	
472	18	12	6	15	0.8	15	10000	0.0010	0.0015	
682	18	13.5	7.5	15	0.8	15	10000	0.0010	0.0015	
103	18	16	10	15	0.8	15	10000	0.0010	0.0015	
103	26.5	16.5	7	22.5	0.8	15	5000	0.0010	0.0015	
153	26.5	17	8.5	22.5	0.8	15	5000	0.0010	0.0015	
223	26.5	19	10	22.5	0.8	15	5000	0.0010	0.0015	
333	26.5	19	10	22.5	0.8	15	5000	0.0010	0.0015	
473	26.5	22	12	22.5	0.8	15	5000	0.0010	0.0015	
683	32	22	13	27.5	0.8	15	5000	0.0010	0.0015	
104	31	25	14	27.5	0.8	15	2200	0.0010	0.0015	
154	32	33	18	27.5	0.8	15	2200	0.0010	0.0015	