



MKP-AC (AC-Filter)



■ 特性 Features

安装简单方便

容量大、体积小

耐高压，具有自愈性

高纹波电路，高 dv/dt 承受力

Easy mounting;

Large capacity, compact size;

High withstanding voltage capability self-healing property;

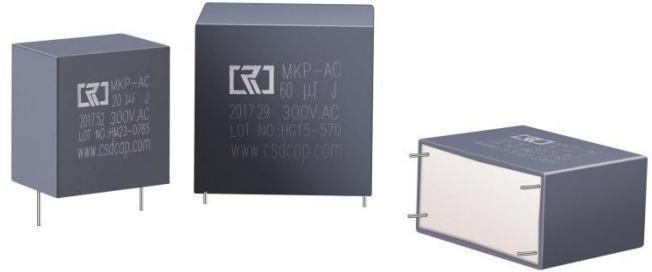
High ripple current capability, high dv/dt strength

■ 应用 APPLICATION

广泛用于电力电子电路中做交流滤波用；

Widely used in power electronic circuits for AC-Filtering;

■ 性能参数 Technical data

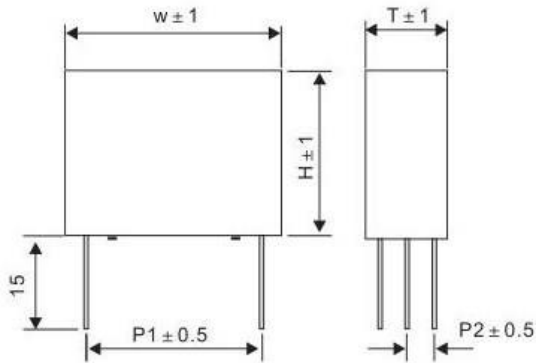


项目 Item	性能 Performance Characteristics	
使用温度范围 Operating Temperature range	-40 +105℃	
贮存温度范围 Storage Temperature range	-40 +105℃	
额定电压 Rated Voltage Range	200~850V.AC	
额定容量 Rated Capacity	3~50 μ F	
静电容量范围 Capacitance Tolerance	± 5% (J) / ±10% (K)	
介质损耗 (tanδ) Dissipation Factor (tan δ)	≤0.0015 at 20°C, 1K Hz	
耐电压 Voltage Proof	极间V _{t-t}	1.5U _n (10S,20°C ± 5°C)
	极壳V _{t-c}	---
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 _n ；试验时间 1000h.	
	静电容量变化 Capacitance change	ΔC/C0 ≤10%
	损耗角正切 D. F. (Tan δ)	Δtanδ ≤ 1.2tanδ + 0.0001
预期寿命 Life	100000h (可参考寿命曲线图)	



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尺寸图 Dimension



W(mm)	P1(mm)	P2(mm)
32	27.5	
42.5	37.5	20.3
57.5	52.5	20.3

UN=85°C 250V.AC												
Cn (μ F)	W \pm 1	H \pm 1	T \pm 1	P \pm 0.5	P1 \pm 0.5	d \pm 0.05	dv/dt (V/ μ s)	tan θ \times 10 ⁻⁴		ESR(m Ω) @10kHz	Imax (A)	Part Number
								100Hz	1kHz			
1.00	32	18	9	27.5	-	1.0	90	15	30	19.5	3.0	
1.50	32	20	11	27.5	-	1.0	90	15	30	12.9	4.0	
2.00	32	22	13	27.5	-	1.0	90	15	30	9.6	5.0	
2.20	32	22	13	27.5	-	1.0	90	15	30	8.5	6.0	
2.50	32	22	13	27.5	-	1.0	90	15	30	7.7	6.0	
3.00	32	25	14	27.5	-	1.0	90	15	30	6.5	7.0	
3.30	32	25	14	27.5	-	1.0	90	15	30	5.8	7.0	
4.00	32	33	18	27.5	-	1.2	90	15	30	4.8	8.0	
4.70	32	33	18	27.5	-	1.2	90	15	30	4.3	8.0	
4.70	41	26	15	37.5	-	1.2	60	15	30	7.8	8.0	
5.00	32	33	18	27.5	-	1.2	90	15	30	3.9	10.0	
5.00	41	26	15	37.5	-	1.2	60	15	30	7.3	10.0	
6.80	32	37	22	27.5	-	1.2	90	15	30	2.8	10.0	
6.80	41	33.5	18.5	37.5	-	1.2	60	15	30	5.4	10.0	
8.00	41	37	22	37.5	-	1.2	60	15	30	4.7	10.0	
10.00	41	37	22	37.5	-	1.2	60	15	30	3.7	13.0	
12.00	41.5	41	27.5	37.5	-	1.2	60	15	30	3.1	14.0	
15.00	41.5	41	27.5	37.5	-	1.2	60	15	30	2.6	14.0	
20.00	42	45	33	37.5	-	1.2	60	15	30	1.8	14.0	
22.00	42	45	33	37.5	-	1.2	60	15	30	1.7	14.0	
25.00	57.5	45	30	52.5	20.3	1.2	30	15	30	3.3	19.0	
30.00	57.5	45	30	52.5	20.3	1.2	30	15	30	2.8	20.0	
35.00	57.5	50	35	52.5	20.3	1.2	30	15	30	2.4	24.0	
40.00	57.5	50	35	52.5	20.3	1.2	30	15	30	2.1	25.0	
UN=85°C 300V.AC												
1.00	32	20	11	27.5	-	1.0	100	15	30	15.9	4.0	
1.50	32	22	13	27.5	-	1.0	100	15	30	10.6	5.0	
2.00	32	25	14	27.5	-	1.0	100	15	30	8.9	6.0	
2.20	32	25	14	27.5	-	1.0	100	15	30	8.0	7.0	
2.50	32	28	14	27.5	-	1.0	100	15	30	7.2	8.0	
3.00	32	33	18	27.5	-	1.2	100	15	30	6.4	9.0	



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UN=85°C 300V.AC												
Cn (μF)	W±1	H±1	T±1	P±0.5	P1±0.5	d±0.05	dv/dt (V/ μs)	3		ESR(mΩ) @10kHz	Imax (A)	Part Number
								100Hz	1kHz			
3.00	41	26	15	37.5	-	1.2	70	15	30	5.3	10.0	
3.30	32	33	18	27.5	-	1.2	100	15	30	4.8	10.0	
3.30	41	26	15	37.5	-	1.2	70	15	30	10.1	6.0	
4.00	32	33	18	27.5	-	1.2	100	15	30	4.6	11.0	
4.00	41	33.5	18.5	37.5	-	1.2	70	15	30	7.6	8.0	
4.70	32	37	22	27.5	-	1.2	100	15	30	4.0	13.0	
4.70	41	33.5	18.5	37.5	-	1.2	70	15	30	6.4	9.0	
5.00	41	33.5	18.5	37.5	-	1.2	70	15	30	6.0	10.0	
6.80	41	37	22	37.5	-	1.2	70	15	30	4.4	12.0	
8.00	41	37	22	37.5	-	1.2	70	15	30	3.8	12.0	
10.00	41.5	41	27.5	37.5	-	1.2	70	15	30	3.0	12.0	
12.00	42	45	33	37.5	-	1.2	70	15	30	2.5	12.0	
15.00	42	45	33	37.5	-	1.2	70	15	30	2.1	12.0	
20.00	57.5	45	30	52.5	20.3	1.2	40	15	30	3.4	18.0	
22.00	57.5	45	30	52.5	20.3	1.2	40	15	30	3.1	20.0	
25.00	57.5	50	35	52.5	20.3	1.2	40	15	30	2.7	21.0	
30.00	57.5	50	35	52.5	20.3	1.2	40	15	30	2.3	24.0	
UN=85°C 350V.AC												
Cn (μF)	W±1	H±1	T±1	P±0.5	P1±0.5	d±0.05	dv/dt (V/ μs)	tan θ × 10-4		ESR(mΩ) @10kHz	Imax (A)	Part Number
								100Hz	1kHz			
0.33	32	18	9	27.5	-	0.8	50	15	30	53.9	1.6	
0.39	32	18	9	27.5	-	0.8	50	15	30	46.0	1.7	
0.47	32	18	9	27.5	-	0.8	50	15	30	38.6	1.8	
0.68	32	20	11	27.5	-	0.8	50	15	30	27.5	2.5	
0.82	32	22	13	27.5	-	0.8	50	15	30	23.3	3.0	
1.00	32	22	13	27.5	-	0.8	50	15	30	19.6	3.2	
1.50	32	25	14	27.5	-	0.8	50	15	30	14.0	4.2	
2.00	32	30	16	27.5	-	0.8	50	15	30	11.1	5.0	
2.00	41	26	15	37.5	-	1.0	35	15	30	14.9	4.6	
2.20	32	30	15	27.5	-	0.8	50	15	30	10.4	5.2	
2.20	41	26	15	37.5	-	1.0	35	15	30	13.7	4.8	
2.50	32	33	18	27.5	-	1.0	50	15	30	7.0	6.2	
3.00	32	33	18	27.5	-	1.0	50	15	30	6.1	6.5	
3.30	32	37	22	27.5	-	1.0	50	15	30	5.8	7.4	
3.50	32	37	22	27.5	-	1.0	50	15	30	5.0	7.9	
4.00	32	37	22	27.5	-	1.0	50	15	30	4.4	8.2	
4.00	41	33.5	18.5	37.5	-	1.0	35	15	30	8.3	7.0	
5.00	41	37	22	37.5	-	1.0	35	15	30	7.0	8.3	
6.00	41.5	41	27.5	37.5	-	1.0	35	15	30	6.2	9.7	
8.00	41.5	41	27.5	37.5	-	1.0	35	15	30	5.1	10.5	
10.00	42.5	45	33	37.5	10.2	1.2	35	15	30	4.4	23.4	
15.00	57.5	45	30	52.5	20.3	1.2	25	15	30	3.7	18.2	
20.00	57.5	50	35	52.5	20.3	1.2	25	15	30	2.9	25.0	