

耐湿型X2抑制干扰型薄膜电容器

THB MKP X2 Metallized Polypropylene Film Capacitors Suppression Capacitor)

MKPB

产品特点

- ◆ 高压产品，紧凑
- ◆ 良好的自我修复性能
- ◆ 湿度等级IIIB
- ◆ 优秀的阻燃能力
- ◆ 高可靠性
- ◆ 使用寿命长
- ◆ 符合ROHS标准

产品用途

- ◆ 用于跨线干扰抑制电路

产品结构

- ◆ 电介质：聚丙烯（MKP）
- ◆ PPS塑料外壳（UL 94 V-0）
- ◆ 环氧树脂密封（UL 94 V-0）

引出

- ◆ 平行引线，无铅镀锡
- ◆ 2引线，4引线版本
- ◆ 标准引线长度：5 ± 0.5 mm

Features

- ◆ High voltage product, compact
- ◆ Good self-healing properties
- ◆ Humidity level IIIB
- ◆ Excellent flame retardant ability
- ◆ High reliability
- ◆ Long useful life
- ◆ RoHS-compatible

Applications

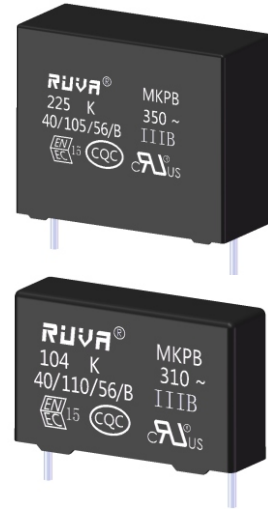
- ◆ Used in across-the-line interference suppression circuit

Construction

- ◆ Dielectric: Polypropylene (MKP)
- ◆ PPS Plastic case (UL 94 V-0)
- ◆ Epoxy resin sealing (UL 94 V-0)

Terminals

- ◆ Parallel wire leads, lead-free tinned
- ◆ 2-pins, 4-pins, versions
- ◆ Standard lead lengths: 5 ± 1 mm



安全认证 Safety Approval

	CQC (中国)	GB/T 6346.14-2015 310Vac/350Vac, X2, 0.1 μF~20 μF, 40/85/56/B, 40/105/56/B, 40/110/56/B, Certificate No.: CQC20001271916
	UL/CUL (美国/加拿大)	MKP-X2, 310Vac/350Vac, X2, 0.1 μF~20 μF, 40/85/56/B, 40/105/56/B, 40/110/56/B, Certificate No. E502152
	ENEC-UL (美国)	IEC 60384-14, 310Vac/350Vac, X2, 0.1 μF~20 μF, 40/85/56/B, 40/105/56/B, 40/110/56/B, Certificate No. ENEC-03262

技术参数 Technical Parameter

参考标准 Reference standard	IEC 60384-14, GB/T 6346.14-20 UL 60384-14
气候类别/阻燃等级 Climatic category/Flammability retardant Class	40/105/56/B
工作温度范围 Operating temperature range	-40°C~110°C
电容量范围 Capacitance Range	0.1 μF~20 μF
电容量偏差 Capacitance tolerance	±5%(J)、±10%(K)、 ±20%(M)(20°C, 1kHz)
额定电压 Rated voltage (VR)	310Vac/350Vac
损耗角正切 Dissipation Factor	$C < 0.47 \mu F$ $\tan \delta \leq 0.0010(1kHz)$ $\tan \delta \leq 0.0020(10kHz)$ $0.47 \mu F \leq C \leq 1.0 \mu F$ $\tan \delta \leq 0.0020(1kHz)$ $\tan \delta \leq 0.0040(10kHz)$ $1.0 \mu F < C \leq 10 \mu F$ $\tan \delta \leq 0.0030(1kHz)$ $C > 10 \mu F$ $\tan \delta \leq 0.0040(1kHz)$
绝缘电阻 Insulation Resistance	$C_n \leq 0.33 \mu F$, $I_n \geq 45000 M\Omega$ $C_n > 0.33 \mu F$, $\tau \geq 15000s$ (20°C, 100V, 1min)
耐电压 Withstand Voltage	引线之间 4.3U _R , 2s Between Terminals 极壳之间 2120Vac, 50Hz (1min) Between Terminals to case

耐湿测试条件 Humidity resistance test condition	85°C/85%RH duration 1000h. rated voltage applied Capacitance $ \Delta C/C \leq 10\%$
耐久性 Endurance test	1000h, 1.25V _R , increase the voltage to 1000VAC every 1h for a duration of 0.1s Upper limit temperature
性能要求 Performance requirements	容量变化 $ \Delta C/C \leq 10\%$ Capacitance change $ \Delta C/C \leq 10\%$ 损耗变化 $\Delta \tan \delta \leq 0.008$ (at 10 kHz) Dissipation factor change $\Delta \tan \delta \leq 0.008$ (at 10 kHz) 绝缘电阻 $R_{ins} \geq 50\%$ 规定值 Insulation resistance $R_{ins} \geq 50\%$ of initial limit
THB耐湿负荷 THB Type Biased humidity test	V _R , 85 ± 3 °C, 85 ± 3%RH, 1000h hours
THB性能要求 THB Performance requirements	容量变化 $ \Delta C/C \leq 10\%$ Capacitance change $ \Delta C/C \leq 10\%$ 损耗变化 $\Delta \tan \delta \leq 0.008$ (at 10 kHz) Dissipation factor change $\Delta \tan \delta \leq 0.008$ (at 10 kHz) 绝缘电阻 $R_{ins} \geq 50\%$ 规定值 Insulation resistance $R_{ins} \geq 50\%$ of initial limit

常用规格表
Common Specification

C (uF)	W ±0.5	H ±0.5	T ±0.5	P ±0.5	Pins	d	Part number
V_{RMS}=310Vac, V_{DC}=630Vdc							
0.1	18	12	6	15	2	0.8	MKPB104P0310Z15+-000
0.47	26.5	19.5	10	22.5	2	0.8	MKPB474P0310Z22+-000
0.56	26.5	19.5	10	22.5	2	0.8	MKPB564P0310Z22+-000
2.2	32	28	17	27.5	2	1.0	MKPB225P0310H27+-000
2.7	32	33	18	27.5	2	1.0	MKPB275P0310H27+-000
3.3	32	37	22	27.5	2	1.0	MKPB335P0310H27+-000
10.0	42	45	30	37.5	2	1.2	MKPB106P0310E37+-000
12.0	42	50	35	37.5	2	1.2	MKPB126P0310E37+-000
15.0	57.5	45	30	52.5	4	1.2	MKPB156P0310E5C+-000
18.0	57.5	50	35	52.5	4	1.2	MKPB186P0310E5C+-000
20.0	57	55	38	52.5	4	1.2	MKPB206P0310E5C+-000
V_{RMS}=350Vac, V_{DC}=700Vdc							
0.1	18	13.5	7.5	15	2	0.8	MKPB104P0350Z15+-000
0.18	18	15.5	9.5	15	2	0.8	MKPB184P0350Z15+-000
0.22	18	18	10	15	2	0.8	MKPB224P0350Z15+-000
0.68	32	20	11	27.5	2	0.8	MKPB684P0350Z27+-000
0.82	32	22	13	27.5	2	0.8	MKPB824P0350Z27+-000
1.0	32	22	13	27.5	2	1.0	MKPB105P0350H27+-000
1.2	32	25	13	27.5	2	1.0	MKPB125P0350H27+-000
2.2	32	33	18	27.5	2	1.0	MKPB235P0350H27+-000
2.7	32	37	22	27.5	2	1.0	MKPB275P0350H27+-000
3.3	32	37	22	27.5	2	1.0	MKPB335P0350H27+-000
2.7	42	30	22	27.5	2	1.0	MKPB275P0350H37+-000
3.3	42	33.5	16	37.5	2	1.0	MKPB335P0350H37+-000
3.9	42	33.5	18.5	37.5	2	1.0	MKPB395P0350H37+-000
4.7	42	37	18.5	37.5	2	1.0	MKPB475P0350H37+-000
5.6	42	37	22	37.5	2	1.0	MKPB565P0350H37+-000
6.8	42	41	22	37.5	2	1.2	MKPB684P0350E37+-000
8.2	42	45	26	37.5	2	1.2	MKPB824P0350E37+-000
10.0	42	50	30	37.5	2	1.2	MKPB106P0350E37+-000
12.0	42	50	30	37.5	2	1.2	MKPB126P0350E37+-000
15.0	57.5	50	35	52.5	4	1.2	MKPB156P0350E5C+-000
18.0	57.5	55	38	52.5	4	1.2	MKPB186P0350E5C+-000
20.0	57.5	55	38	52.5	4	1.2	MKPB206P0350E5C+-000

备注REMARKS:

1. "+ -" 意味着容忍能力能够符合 "J" "K"
2. "000" 意味着内部用铅长度
3. 电容值测量1 kHz
1. "+ -" Means the capacity tolerance can conform to "J" "K"
2. "000" Means Internal use the lead length
3. Capacitance value measured at 1 kHz