

高频吸收聚丙烯薄膜电容器

MKP Metallized Polypropylene Film Capacitors

MKPH

产品特点

- ◆ 耐脉冲能力强
- ◆ 具有优秀的自愈性
- ◆ 优异的阻燃性能
- ◆ 优秀的可靠性
- ◆ 使用寿命长
- ◆ 符合ROHS标准

产品用途

- ◆ 电子镇流器
- ◆ 缓冲吸收
- ◆ 开关电源

产品结构

- ◆ 电介质: 聚丙烯 (MKP)
- ◆ PBT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 pulse intensity
- ◆ Good self-healing properties
- ◆ Excellent flame retardant ability
- ◆ High reliability
- ◆ Long useful life
- ◆ RoHS-compatible

Applications

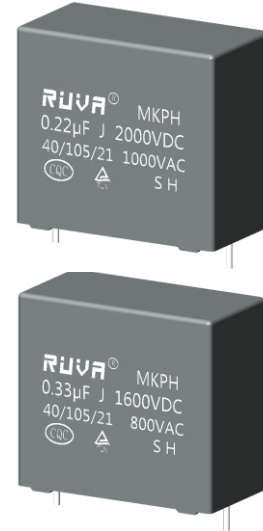
- ◆ Electronic ballasts
- ◆ Snubbing
- ◆ Switch-mode power supplies

Construction

- ◆ Dielectric: Polypropylene (MKP)
- ◆ PBT 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 3984.1-2004、GB/T 3984.2-2004、IEC60110高频高压谐振电容器 MKPH, 1000V~2000V, 40/105/21 50kHz, 0.01µF~0.9µF, $\pm 5\%$ 、 $\pm 10\%$ Certificate No.: CQC18002206821
	TUV (德国)	EN 60110-1: 1998 MKPH, 500VAC~1000VAC, 50kHz, 1000VDC~2000VDC, 0.01µF~0.9µF, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$, AN-40/105 Certificate No.: R50452454

技术参数 Technical Parameter

参考标准 Reference standard GB/T 3984、IEC 60110、IEC 60384-17

气候类别 Climatic category 40/105/21

额定温度 Operating temperature range 85°C

工作温度范围 Climatic category -40°C~105°C

电容量范围 Capacitance Range 0.01µF~0.9µF

电容量偏差 Capacitance tolerance $\pm 5\%$ (J)、 $\pm 10\%$ (K)、 $\pm 20\%$ (M)

额定电压 Rated voltage (VR) 1000Vdc(500Vac), 1200Vdc(600Vac)
1600Vdc(800Vac), 2000Vdc(1000Vac)

损耗角正切 Dissipation Factor $\tan \delta \leq 0.0010$ (1kHz, 20°C)

绝缘电阻 Insulation Resistance $CR \leq 0.33\mu F$, $IR \geq 100\ 000\ M\Omega$
 $CR > 0.33\mu F$, $RC \geq 30\ 0000s$ (20°C, 100V, 1min)

耐电压 Withstand Voltage 1.5VR, 5s

在85°C到105°C之间电压降低率
For temperatures between 85°C and 105°C $1.33\% / ^\circ C$ of Vop
derating compared to Vop at 85°C

电压爬升率 Dv/dt values

UR (V)	DV/Dt (V/µs)		
	P22.5	P27.5	P37.5
1000	2000	1000	300
1250	2500	1150	500
1600	3000	2000	1200
2000	5000	2500	1500

耐久性 Endurance test

85 $\pm 3^\circ$ C, 1.3VR 1000h

性能要求 Performance requirements

容量变化 $|\Delta C/C| \leq 3\%$
Capacitance change $|\Delta C/C| \leq 3\%$
损耗变化 $\Delta \tan \leq 0.015$ (at 10 kHz)
Dissipation factor change $\Delta \tan \leq 0.015$ (at 10 kHz)
绝缘电阻 $R_{ins} \geq 50\%$ 规定值
Insulation resistance $R_{ins} \geq 50\%$ of initial limit

耐湿负荷测试 Biased humidity test

60 $\pm 3^\circ$ C, 95 $\pm 3\%$ RH, VR, 1000h

性能要求 Performance requirements

容量变化 $|\Delta C/C| \leq 5\%$
Capacitance change $|\Delta C/C| \leq 5\%$
损耗变化 $\Delta \tan \leq 0.004$ (at 10 kHz)
Dissipation factor change $\Delta \tan \leq 0.004$ (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

CN (μ F)	W	H	T	P	D	Part number
1000Vdc(500Vac)						
0.068	26.5	16	7	22.5	0.8	MKPH684D1000Z22+ -000
0.082	26.5	17	8.5	22.5	0.8	MKPH824D1000Z22+ -000
0.1	26.5	18.5	10	22.5	0.8	MKPH104D1000Z22+ -000
0.15	26.5	22	12	22.5	0.8	MKPH154D1000Z22+ -000
0.33	32	25	13	27.5	0.8	MKPH334D1000Z27+ -000
0.47	32	27.5	18	27.5	0.8	MKPH474D1000Z27+ -000
0.56	32	33	18	27.5	0.8	MKPH564D1000Z27+ -000
0.82	32	37	22	27.5	1	MKPH824D1000H27+ -000
0.68	41	30	16	37.5	0.8	MKPH684D1000Z37+ -000
1200Vdc(600Vac)						
0.033	26.5	15	6	22.5	0.8	MKPH333D1200Z22+ -000
0.068	26.5	18.5	10	22.5	0.8	MKPH683D1200Z22+ -000
0.082	26.5	18.5	10	22.5	0.8	MKPH823D1200Z22+ -000
0.1	26.5	22	12	22.5	0.8	MKPH104D1200Z22+ -000
0.15	26.5	22	12	22.5	0.8	MKPH154D1200Z22+ -000
0.3	32	28	14	27.5	0.8	MKPH304D1200Z27+ -000
0.47	32	33	18	27.5	0.8	MKPH474D1200Z27+ -000
0.68	32	37	22	27.5	1	MKPH684D1200H27+ -000
0.47	41	30	16	37.5	1	MKPH474D1200H37+ -000
0.68	41.5	32	19.5	37.5	1	MKPH684D1200H37+ -000
1600Vdc(800Vac)						
0.022	26.5	15	6	22.5	0.8	MKPH223D1600Z22+ -000
0.033	26.5	17	8.5	22.5	0.8	MKPH333D1600Z22+ -000
0.1	26.5	24.5	15.5	22.5	0.8	MKPH104D1600Z22+ -000
0.056	31	18	9	27.5	0.8	MKPH564D1600Z27+ -000
0.15	32	25	13	27.5	0.8	MKPH154D1600Z27+ -000
0.22	32	27.5	18	27.5	0.8	MKPH224D1600Z27+ -000
0.33	32	37	22	27.5	1	MKPH334D1600H27+ -000
0.47	41	32	19.5	37.5	1	MKPH474D1600H37+ -000
0.56	42	40	20	37.5	1	MKPH564D1600H37+ -000
0.68	42	44	24	37.5	1	MKPH684D1600H37+ -000
0.82	42	44	24	37.5	1	MKPH824D1600H37+ -000
2000Vdc(1000Vac)						
0.01	26.5	15	6	22.5	0.8	MKPH103D2000Z22+ -000
0.015	26.5	16	7	22.5	0.8	MKPH153D2000Z22+ -000
0.022	26.5	17	8.5	22.5	0.8	MKPH223D2000Z22+ -000
0.033	26.5	18.5	10	22.5	0.8	MKPH333D2000Z22+ -000
0.047	26.5	22	12	22.5	0.8	MKPH473D2000Z22+ -000
0.068	26.5	24.5	15.5	22.5	0.8	MKPH683D2000Z22+ -000
0.047	32	20	11	27.5	0.8	MKPH473D2000Z27+ -000
0.068	32	25	13	27.5	0.8	MKPH683D2000Z27+ -000
0.15	32	33	18	27.5	0.8	MKPH154D2000Z27+ -000
0.22	32	37	22	27.5	1	MKPH224D2000H27+ -000
0.22	41	30	16	37.5	0.8	MKPH224D2000Z37+ -000
0.33	42	40	20	37.5	1	MKPH334D2000H37+ -000
0.47	42	44	24	37.5	1	MKPH474D2000H37+ -000
0.56	42	45	30	37.5	1.2	MKPH564D2000E37+ -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

订购方式: +86 563 4183767/4186118 ✉ czy@ngyh.com 了解更多产品信息, 敬请登录:  www.ngyh.com