

缓冲吸收聚丙烯薄膜电容器

MKPD Metallized Polypropylene Film Capacitors

MKPD

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

铜端片、无铅镀锡

Features

- ◆ High pulse intensity
- ◆ Good self-healing properties
- ◆ Excellent flame retardant ability
- ◆ High reliability
- ◆ Long useful life
- ◆ RoHS-compatible

Applications

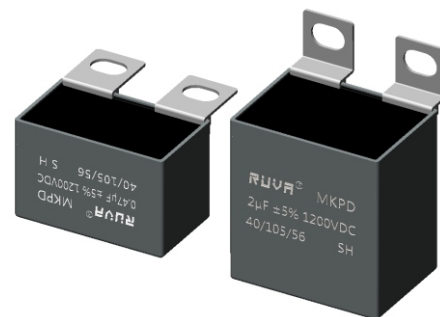
- ◆ Electronic ballasts
- ◆ Snubbing
- ◆ Switch-mode power supplies

Construction

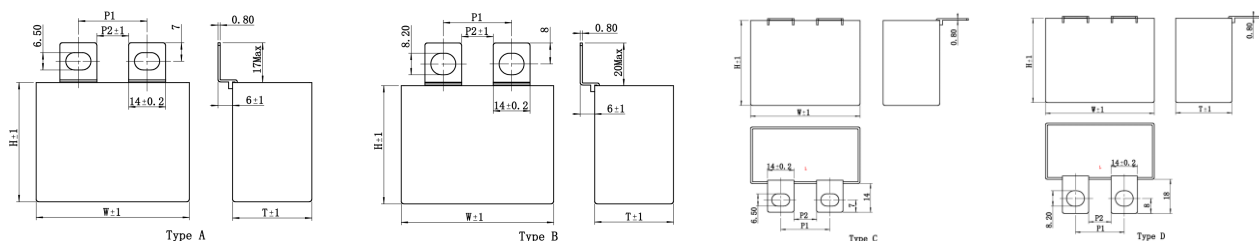
- ◆ Dielectric: Polypropylene (MKP)
- ◆ PBT Plastic case (UL 94 V-0)
- ◆ Epoxy resin sealing (UL 94 V-0)

Terminals

Copper terminals, lead-free tin plating



外形图 Outline Drawing



Type A 安装孔径: M6					Type B 安装孔径: M8			
外壳长度W	P1	P2	P1	P2	P1	P2	P1	P2
42.5	22~28	11	19~25	8	11	24~26	21~23	8
57.5	22~28	11	35~41	24	11	24~26	37~39	24
Type C 安装孔径: M6					Type D 安装孔径: M8			
外壳长度W	P1	P2	P1	P2	P1	P2	P1	P2
42.5	22~28	11	19~25	8	11	24~26	21~23	8
57.5	22~28	11	35~41	24	11	24~26	37~39	24

技术参数 Technical Parameter

参考标准 Reference standard GB/T 17702-2013(IEC 61071:2007);

气候类别 Climatic category 40/105/56

工作温度范围 (外壳) Operating temperature range (case) 最高工作温度 Max. operating temperature, Top +105°C 最低工作温度 Lower category temperature T_{min} -40°C

电容量范围 Capacitance Range 0.047 μF ~ 6.8 μF

电容量偏差 Capacitance tolerance J(±5%)、K(±10%)

额定电压 Rated voltage (VR) 700Vdc ~ 3000VDC

在85°C到105°C之间电压降低率 For temperatures between 85°C and 105°C

1.33%/°C of V_{op} derating compared to V_{op} at 85°C

直流耐压 (电极间) DC test voltage between terminals (10 s)

1.5*U_N (10s)

绝缘耐压 (极壳间) Voltage test terminal to case (10 s)

2100 V AC, 50 Hz

绝缘电阻 Insulation Resistance

I_r ≥ 100 000 MΩ, C_N ≤ 0.33 μF
I_r × C_N ≥ 30 000 s, C_N > 0.33 μF
20°C, 100Vdc, 1min

峰值电流 Maximum peak current

I_p = C*dV/dT

预期使用寿命 Operation life time

100 000h at U_N and θ 70°C

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常用规格表
Common Specification

C (μF)	W ± 1	T ± 1	H ± 1	dV/dt (V/us)	I _{peak} (A)	ESR @100kHz (m Ω)	I _{rms} @10kHz 70°C (A)	L _s (nH)	Part number
Un 1200Vdc, Us 1800Vdc, Urms 500Vac									
0.47	42.5	24.5	27.5	650	305.5	7.6	14	≤ 25	MKPD474D1200***+ -042
0.56	42.5	24.5	27.5	650	364	6.4	14.5	≤ 25	MKPD564D1200***+ -042
1	42.5	33.5	35.5	650	650	3.8	20.5	≤ 25	MKPD105D1200***+ -042
1.2	42.5	33	45	650	780	3.6	22.5	≤ 25	MKPD125D1200***+ -042
1.5	42.5	33	45	650	975	4.2	25	≤ 25	MKPD155D1200***+ -042
2	57.5	30	45	450	900	3.8	27	≤ 35	MKPD205D1200***+ -057
2.5	57.5	35	50	450	1125	3.5	30	≤ 35	MKPD255D1200***+ -057
3	57.5	35	50	450	1350	3.2	31	≤ 35	MKPD305D1200***+ -057
4.5	57.5	42.5	56	450	2025	3.1	32	≤ 35	MKPD455D1200***+ -057
Un 1600Vdc/1700Vdc, Us 2750Vdc, Urms 550Vac									
0.22	42.5	24.5	27.5	900	198	12	11	≤ 25	MKPD224D1700***+ -042
0.33	42.5	24.5	27.5	900	297	8	12.5	≤ 25	MKPD334D1700***+ -042
0.47	42.5	28	37	900	423	6.5	15.5	≤ 25	MKPD474D1700***+ -042
0.56	42.5	28	37	900	504	6	16	≤ 25	MKPD564D1700***+ -042
0.68	42.5	33.5	35.5	900	612	5.5	16.3	≤ 25	MKPD684D1700***+ -042
0.82	42.5	33	45	900	738	5.2	21.7	≤ 25	MKPD824D1700****042
1	57.5	30	45	800	800	5	22	≤ 35	MKPD105D1700***+ -057
1.2	57.5	30	45	650	780	4.6	25	≤ 35	MKPD125D1700***+ -057
1.5	57.5	35	50	650	975	3.8	27.5	≤ 35	MKPD155D1700***+ -057
2.2	57.5	42.5	56	650	1430	3.5	30	≤ 35	MKPD225D1700***+ -057
Un 2000Vdc, Us 3000Vdc, Urms 630Vac									
0.22	42.5	24.5	27.5	1000	220	11.5	10	≤ 25	MKPD224D2000***+ -042
0.33	42.5	28	37	1000	330	9.5	15.5	≤ 25	MKPD224D2000***+ -042
0.47	42.5	28	37	1000	470	5.5	18	≤ 25	MKPD224D2000***+ -042
0.56	42.5	33	45	1000	560	4.8	20.5	≤ 25	MKPD224D2000***+ -042
0.68	57.5	30	45	750	510	5.7	22.5	≤ 35	MKPD225D2000***+ -057
0.82	57.5	30	50	750	615	4.7	24	≤ 35	MKPD225D2000***+ -057

备注REMARKS:

1. “+ -” 意味着容忍能力能够符合 “J” “K”
2. 电容值测量10 kHz
3. I_{rm}为70°C,在10 kHz $\Delta T \leq 15^\circ\text{C}$
4. 典型的ESL值测量共振频率
5. 典型的ESR 100千赫测量值
1. “+ -” Means the capacity tolerance can conform to "J" "K"
2. Capacitance value measured at 10 kHz
3. I_{rms} at 70°C, at 10 kHz for a $\Delta T \leq 15^\circ\text{C}$
4. Typical ESL value measured at resonance frequency
5. Typical ESR at 100 kHz measured value