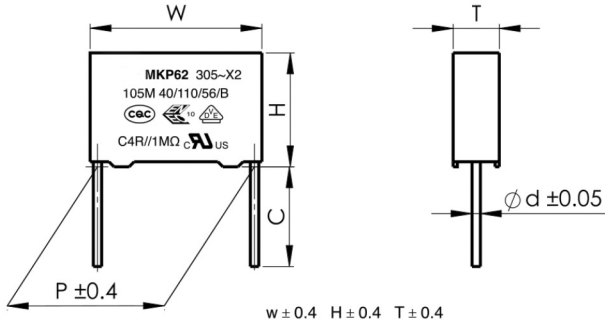
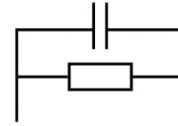


## 金属化聚丙烯膜抗干扰电容器 (带放电电阻, X2类, 305Vac) Metallized polypropylene film Interference Suppression capacitor with discharge resistor (Class X2, 305Vac)

### ■ 外形图 Outline Drawing



### ■ 电路结构图 Electrical Connection



### ■ 特点

- X2电容器与放电电阻内部并联组成
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

### ■ Features

- Internal parallel connection from X2 cap to discharge resistor
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit

### ■ 安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac, 0.22 μF~10.0 μF, 40/110/56/B, discharge resistor 470kΩ~20MΩ 证书号(Certificate No.): CQC03001002875
●		ENEC-VDE (欧盟)	EN 60384-14:2013, X2, 305Vac, 0.22 μF~10.0 μF, 40/110/56/B, discharge resistor 470kΩ~20MΩ 证书号(Certificate No.): 40000358
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X2, 305Vac, 0.22 μF~10.0 μF, 40/110/56/B, discharge resistor 470kΩ~20MΩ 证书号(File No.): E186600, CCN: FOWX2/8

### ■ 技术要求 Specifications

电容器类别 Class	X2 类		
气候类别 / 阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage (U <sub>R</sub> )	305Vac, 50/60Hz		
最大连续直流电压 Maximum continuous DC voltage	630Vdc		
电容量范围 Capacitance Range	0.22μF ~ 10.0μF		
电容量偏差 Capacitance Tolerance	± 10%(K), ± 20%(M)		
放电电阻范围 / 偏差 Resistance range/ Tolerance	470kΩ~20MΩ, ± 10%		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U <sub>R</sub> (dc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vacc, 1min	
损耗角正切 Dissipation Factor (tan δ)	0.22μF ≤ C <sub>N</sub> ≤ 0.47μF	≤ 20 x 10 <sup>-4</sup> (1kHz,20°C)	≤ 20 x 10 <sup>-4</sup> (10kHz,20°C)
	0.47μF < C <sub>N</sub> ≤ 1.0μF	≤ 20 x 10 <sup>-4</sup> (1kHz,20°C)	≤ 40 x 10 <sup>-4</sup> (10kHz,20°C)
	1.0μF < C <sub>N</sub> ≤ 10μF	≤ 30 x 10 <sup>-4</sup> (1kHz,20°C)	-----

## 产品编码说明 Part number system

### ■ 18位产品代码如下:

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	4	R															

第1~3位	型号代码	Digit 1 to 3	Series code
	C4R=MKP62 带放电电阻		C4R=MKP62 Series with discharge resistor
第4~5位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q2=305V		Q2=305V
第6~8位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10 × 10 <sup>3</sup> pF=0.01μF		For example: 103=10 × 10 <sup>3</sup> pF=0.01μF
第9位	容量偏差	Digit 9	Capacitance tolerance
	K= ± 10%, M= ± 20%		K= ± 10%, M= ± 20%
第10位	引线脚距P	Digit 10	Pitch
	9=22.5mm B=27.5mm F=37.5mm		9=22.5mm B=27.5mm F=37.5mm
第11位	放电电阻阻值代码	Digit 11	Value code of the discharge resistor
第12~15位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code
第16~18位	内部特征码	Digit 16 to 18	Internal use

### ■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位和第 14 位 Digit 13 and Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
C	直脚 straight lead "C" in the figure above	00 45	标准的引线长度 (18mm~26mm) standard lead length 引线长度 4.5mm lead length 4.5mm	0	引线长度偏差 ±0.5mm 或标准长度 Length tolerance ±0.5mm Or standard length
D	软绝缘线 (多股) Insulated stranded leads	C5 K0 K2 L0	35mm 100mm 120mm 200mm 注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts. 注 2: 一般 P ≥ 27.5 产品才可选用绝缘线方式 Note 2: Normally, for P ≥ 27.5 Caps can choice Insulated leads.	1 2 3 4	引线长度偏差 -5mm ~ 0mm Length tolerance -5 mm ~ 0 mm 引线长度偏差 0 mm ~ +5 mm Length tolerance 0 mm ~ +5 mm 引线长度偏差 0 mm ~ +10mm Length tolerance 0 mm ~ +10mm 引线长度偏差 ± 5 mm Length tolerance ± 5 mm
E	硬绝缘线 (单股) Insulated solid leads				
M	软绝缘线 (多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot				

## ■ 外形尺寸表 Dimensions ( mm )

305Vac						
C <sub>N</sub> (μF)	W	H	T	P	d	Part number
0.22	26.5	16.0	7.0	22.5	0.8	C4RQ2224-9#****+++
0.33	26.5	17.0	8.5	22.5	0.8	C4RQ2334-9#****+++
0.47	26.5	18.5	10.0	22.5	0.8	C4RQ2474-9#****+++
0.68	26.5	20.0	11.0	22.5	0.8	C4RQ2684-9#****+++
1.0	26.5	22.0	12.0	22.5	0.8	C4RQ2105-9#****+++
0.47	32.0	18.0	9.0	27.5	0.8	C4RQ2474-B#****+++
0.68	32.0	20.0	11.0	27.5	0.8	C4RQ2684-B#****+++
1.0M	32.0	20.0	11.0	27.5	0.8	C4RQ2105MB#****+++
1.0K	32.0	22.0	13.0	27.5	0.8	C4RQ2105KB#****+++
1.5	32.0	22.0	13.0	27.5	0.8	C4RQ2155-B#****+++
2.2	32.0	28.0	14.0	27.5	0.8	C4RQ2225-B#****+++
3.3	32.0	33.0	18.0	27.5	0.8	C4RQ2335-B#****+++
4.7	32.0	37.0	22.0	27.5	0.8	C4RQ2475-B#****+++
1.5	41.0	22.0	11.0	37.5	1.0	C4RQ2155-F#****+++
2.2	41.0	24.0	13.0	37.5	1.0	C4RQ2225-F#****+++
3.3	42.0	28.0	14.0	37.5	1.0	C4RQ2335-F#****+++
4.7	41.0	32.0	17.0	37.5	1.0	C4RQ2475-F#****+++
6.8	42.0	40.0	20.0	37.5	1.0	C4RQ2685-F#****+++
10.0	41.0	41.0	26.0	37.5	1.0	C4RQ2106-F#****+++

- 注: 1. “-”表示容量偏差。 “-” =capacitance tolerance code, M= ±20%,K= ±10%  
 2. “\*\*\*\*”表示引线加工和包装代码(见table 1)。“\*\*\*\*” =lead form and packing code (refer to table 1)  
 3. “#”对应的电阻值表。 Digit 11: “#” =Value code of the discharge resistor (tolerance ±10%)

电阻值 R <sub>N</sub>	470kΩ	680kΩ	820kΩ	1MΩ	1.2MΩ	1.5MΩ	2.2MΩ	3.3MΩ	4.7MΩ	6.8MΩ	10MΩ	20MΩ
代码 Code	A	B	C	D	E	F	H	L	N	P	S	T