



Guang Zhou Nan Cai Electronic CO.,LTD.
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規格承認書

(SPECIFICATION FOR APPROVAL)

File No.: Q/BH .TS16949.13TECH1303

Product Name: Metallized polypropylene film A.C. capacitor for capacitive divider
(Class MKP62-X2 ac305V)

Product Type: C42(E)(MKP62-X2 ac305V)

Product Code: C42(E)

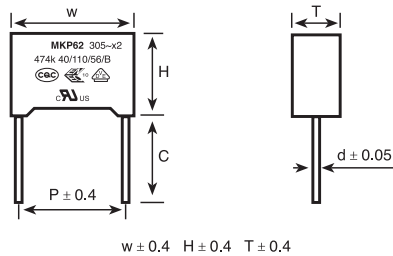
Customer:

Customer Code:

Issue Date: (V3.0)

电容降压专用金属化聚丙烯膜交流电容器(X2类) Metallized polypropylene film A.C. capacitor for capacitive divider(Class X2)

■ 外形图 Outline Drawing



■ 特点

- 专门设计用于与100Vac~240Vac电源串联的电容降压电路场合，如电表、LED驱动模块等。
- 金属化聚丙烯膜
- 自愈性能优异，能承受浪涌电压冲击
- 长期负载下优异的电容容量稳定性
- 优异的防潮性能
- 优异的阻燃性能

■ Features

- This is specifically designed for applications in serial with the 100Vac~240Vac main, i.e.: capacitive divider, for example, energy meter, LED driver etc.
- Metallized polypropylene film
- Good self-healing properties,withstanding surge voltage stressing
- Long stability of capacitance
- Good properties in damp environment
- Excellent active and passive flame resistant abilities

■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 14472 (IEC60384-14)	
安全认证 Safety Approvals	CQC030010028 ; ENEC-VDE: 400003 ; UL-CUL: E1866 , CCN: FOWX2	
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℃ ~ +110℃	
额定电压 Rated Voltage	305Vac, 50/60Hz	
电容量范围 Capacitance Range	0.1μF~2.2μF (可按要求制作其它电容量)(available on request)	
电容量偏差 Capacitance Tolerance	± 10%(K)、 ± 20%(M) (Other tolerance available on request)	
耐电压 Voltage Proof	引线之间 Between Terminals:	2 000(Vdc) (2s) $C_R \leq 1.0\mu F$ 1 800(Vdc) (2s) $C_R > 1.0\mu F$
	极壳之间 Between Terminals To Case:	2 120(Vac) (1min)
承受的脉冲电压 Endure impulse voltage	2 500V	
绝缘电阻 Insulation Resistance	$R \geq 15\ 000M\Omega$, $C_R \leq 0.33\mu F$ $RC \geq 5\ 000s$, $C_R > 0.33\mu F$	(20℃, 100V, 1min)
损耗角正切 Dissipation Factor	$\leq 10 \times 10^{-4}$ (1kHz, 20℃) 典型值 Typical value 3×10^{-4}	
	$\leq 20 \times 10^{-4}$ (10kHz, 20℃) 典型值 Typical value 8×10^{-4}	



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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	2							E								

第1~3位	型号代码	Digit 1 to 3	Series code
	C42=MKP62		C42=MKP62
第4~5位	交流额定电压	Digit 4 to 5	AC rated voltage
	P2=275V Q2=305V		P2=275V Q2=305V
第6~8位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 474=47 x 10 ⁴ pF=0.47μF		For example: 474=47 x 10 ⁴ pF=0.47μF
第9位	容量偏差	Digit 9	Capacitance tolerance
	K= ± 10% M= ± 20%		K= ± 10% M= ± 20%
	N=0 ~ +10% 1=+4% ~ +14%		N=0 ~ +10% 1=+4% ~ +14%
	2= 0 ~ -10% 3=-5% ~ -14%		2= 0 ~ -10% 3=-5% ~ -14%
第10位	引线脚距 P	Digit 10	Pitch
	6=15.0mm 9=22.5mm B=27.5mm		6=15.0mm 9=22.5mm B=27.5mm
第11位	内部特征码	Digit 11	Internal use
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

■ Table1 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 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	标准的引线长度(18mm~26mm) standard lead length	0	引线长度偏差 ±0.5mm或标准长度 Length tolerance ±0.5mm Or standard length
		45	引线长度 4.5mm lead length 4.5mm		



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■ 外形尺寸 Dimensions(mm)

305Vac								
C _R (μF)	tolerance	marking	W	H	T	P	d	Part number
0.10	±5%	K	17.5	13.5	7.5	15.0	0.6	C42Q2104K6E****+---
0.15	±5%	K	17.5	14.5	8.5	15.0	0.6	C42Q2154K6E****+---
0.22	±5%	K	17.5	16.0	10.0	15.0	0.8	C42Q2224K6E****+---
0.33	±5%	K	17.5	19.0	11.0	15.0	0.8	C42Q2334K6E****+---
0.15	±5%	K	26.5	15.0	6.0	22.5	0.8	C42Q2154K9E****+---
0.18	±5%	K	26.5	16.0	7.0	22.5	0.8	C42Q2184K9E****+---
0.22	±5%	K	26.5	16.0	7.0	22.5	0.8	C42Q2224K9E****+---
0.27	±5%	K	26.5	17.0	8.5	22.5	0.8	C42Q2274K9E****+---
0.33	±5%	K	26.5	17.0	8.5	22.5	0.8	C42Q2334K9E****+---
0.39	±5%	K	26.5	18.5	10.0	22.5	0.8	C42Q2394K9E****+---
0.39	0~+10%	K	26.5	18.5	10.0	22.5	0.8	C42Q2394N9E****+---
0.39	+4%~+14%	M	26.5	18.5	10.0	22.5	0.8	C42Q239419E****+---
0.47	-14%~-5%	M	26.5	18.5	10.0	22.5	0.8	C42Q247439E****+---
0.47	-10~0%	K	26.5	20.0	11.0	22.5	0.8	C42Q247429E****+---
0.47	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2474K9E****+---
0.47	0~+10%	K	26.5	20.0	11.0	22.5	0.8	C42Q2474N9E****+---
0.56	±5%	K	26.5	18.5	10.0	22.5	0.8	C42Q2564K9E****+---
0.56	0~+10%	K	26.5	18.5	10.0	22.5	0.8	C42Q2564N9E****+---
0.60	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2604K9E****+---
0.68	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2684K9E****+---
0.68	0~+10%	K	26.5	20.0	11.0	22.5	0.8	C42Q2684N9E****+---
0.75	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2754K9E****+---
0.82	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2824K9E****+---
0.87	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2874K9E****+---
0.91	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2914K9E****+---
1.0	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2105K9E****+---
0.39	±5%	K	32.0	18.0	9.0	27.5	0.8	C42Q2394KBE****+---
0.47	±5%	K	32.0	18.0	9.0	27.5	0.8	C42Q2474KBE****+---
0.56	±5%	K	32.0	20.0	11.0	27.5	0.8	C42Q2564KBE****+---
0.56	0~+10%	K	32.0	20.0	11.0	27.5	0.8	C42Q2564NBE****+---
0.60	±5%	K	32.0	20.0	11.0	27.5	0.8	C42Q2604KBE****+---
0.68	±5%	K	32.0	20.0	11.0	27.5	0.8	C42Q2684KBE****+---
0.68	0~+10%	K	32.0	20.0	11.0	27.5	0.8	C42Q2684NBE****+---
0.82	±5%	K	32.0	22.0	13.0	27.5	0.8	C42Q2824KBE****+---
1.0	±5%	K	32.0	22.0	13.0	27.5	0.8	C42Q2105KBE****+---
1.2	±5%	K	32.0	28.0	14.0	27.5	0.8	C42Q2125KBE****+---
1.5	±5%	K	32.0	28.0	14.0	27.5	0.8	C42Q2155KBE****+---
1.8	±5%	K	32.0	30.0	16.0	27.5	0.8	C42Q2185KBE****+---
2.2	±5%	K	32.0	33.0	18.0	27.5	0.8	C42Q2225KBE****+---

备注: 1. “-”表示容量偏差。“-”=capacitance tolerance code, K=±10%, M=±20%
 2. “****”表示引线形状和包装代码(见table 1)。“****”=lead form and packing code(refer to table 1)
 3. 380Vac电源场合建议使用MKP65。详细请与技术人员联系。
 If used in the 380Vac ,Pls refer to MKP65 series . Pls contact our technical engineer for more details.