



Guang Zhou Nan Cai Electronic CO.,LTD.
<http://www.cgznc.com>



規格承認書

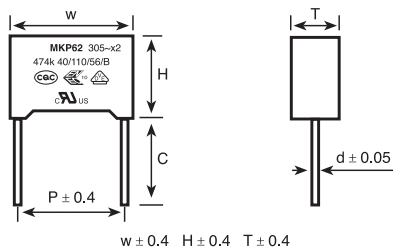
(SPECIFICATION FOR APPROVAL)

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

Product Name:	Metallized polypropylene film interference suppression capacitor (ClassX2, ac305V Temperature Humindity Bias(THB) series)
Product Type:	C42 (W)(MKP62-X2, ac305V)
Product Code:	C42(W)
Customer:	
Customer Code:	
Issue Date:	(V3.0)

金属化聚丙烯膜抗干扰电容器(X2类, THB防潮系列) Metallized polypropylene film interference suppression capacitor (Class X2, Temperature Humidity Bias (THB) series)

■ 外形图 Outline Drawing



■ 特点

- 在严苛的环境下(如高温高湿)长期应用容量稳定性优异。
- 自愈性能优异, 能承受浪涌电压冲击
- 优异的阻燃性能

■ 应用

- 电源串联连接用
- 阻容降压应用
- 例如: 电表, LED供电模块及其他苛刻应用环境。

■ Features

- High stability of capacitance under severe ambient condition, such as high temperature and high humidity.
- Good self-healing properties,withstanding surge voltage stressing
- Excellent active and passive flame resistant abilities

■ Applications

- For connection in series with the mains
- For capacitive divider power supply
- Such as power meter, LED driver, and other severe ambient condition applications.

■ 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: E186600, CCN: FOWX2/8	
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	0.010μF~4.7μF	
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:	1 800(Vdc) (2s)
	极壳之间 Between Terminals To Case:	2 120(Vac) (1min)
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ , RC ≥ 5 000s,	C _R ≤ 0.33μF C _R > 0.33μF (20℃, 100V, 1min)
损耗角正切 Dissipation Factor	≤ 10 × 10 ⁻⁴ (1kHz, 20℃) 典型值 Typical value 3 × 10 ⁻⁴	
	≤ 20 × 10 ⁻⁴ (10kHz, 20℃) 典型值 Typical value 8 × 10 ⁻⁴	
耐湿负荷测试 THB test (Damp heat test with loading)	Tempetature: 85℃ ± 2℃ ; Humidity: 85% ± 2% Voltage: 240Vac 50Hz; Duration: 1 000 hours Capacitance change (ΔC/C): ≤ 10% Dissipation factor change (Δtgδ): ≤ 0.5% (1kHz) Insulation resistance: ≥ 50% of initial value	



MKP62
Code: C42(W)

Guang Zhou Nan Cai Electronic CO.,LTD.
<http://www.cgznc.com>

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								W							

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
	Q2=305V		Q2=305V
第6~8位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: $474=47 \times 10^4 \text{ pF}=0.47\mu\text{F}$		For example: $474=47 \times 10^4 \text{ pF}=0.47\mu\text{F}$
第9位	容量偏差	Digit 9	Capacitance tolerance
	K= $\pm 10\%$ M= $\pm 20\%$		K= $\pm 10\%$ M= $\pm 20\%$
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 引线形状和包装代码 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 $\pm 0.5\text{mm}$ 或标准长度 Length tolerance $\pm 0.5\text{mm}$ Or standard length
		45	引线长度 4.5mm lead length 4.5mm		



MKP62
Code: C42(W)

Guang Zhou Nan Cai Electronic CO.,LTD.
<http://www.cgznc.com>

■ 外形尺寸 Dimensions(mm)

305Vac						
C _R (μF)	W	H	T	P	d	Part number
0.010	17.5	11.0	5.0	15.0	0.6	C42Q2103-6W****+++
0.015	17.5	11.0	5.0	15.0	0.6	C42Q2153-6W****+++
0.022	17.5	11.0	5.0	15.0	0.6	C42Q2223-6W****+++
0.033	17.5	11.0	5.0	15.0	0.6	C42Q2333-6W****+++
0.047	17.5	11.0	5.0	15.0	0.6	C42Q2473-6W****+++
0.068	17.5	11.0	5.0	15.0	0.6	C42Q2683-6W****+++
0.10	17.5	12.0	6.0	15.0	0.6	C42Q2104-6W****+++
0.15	17.5	13.5	7.5	15.0	0.6	C42Q2154-6W****+++
0.22	17.5	14.5	8.5	15.0	0.8	C42Q2224-6W****+++
0.27	17.5	16.0	10.0	15.0	0.8	C42Q2274-6W****+++
0.33	17.5	16.0	10.0	15.0	0.8	C42Q2334-6W****+++
0.39	17.5	19.0	11.0	15.0	0.8	C42Q2394-6W****+++
0.47	17.5	19.0	11.0	15.0	0.8	C42Q2474-6W****+++
0.10	26.5	15.0	6.0	22.5	0.6	C42Q2104-9W****+++
0.15	26.5	15.0	6.0	22.5	0.6	C42Q2154-9W****+++
0.22	26.5	15.0	6.0	22.5	0.6	C42Q2224-9W****+++
0.27	26.5	16.0	7.0	22.5	0.6	C42Q2274-9W****+++
0.33	26.5	16.0	7.0	22.5	0.6	C42Q2334-9W****+++
0.39	26.5	17.0	8.5	22.5	0.8	C42Q2394-9W****+++
0.47	26.5	17.0	8.5	22.5	0.8	C42Q2474-9W****+++
0.56	26.5	18.5	10.0	22.5	0.8	C42Q2564-9W****+++
0.68	26.5	18.5	10.0	22.5	0.8	C42Q2684-9W****+++
0.82	26.5	20.0	11.0	22.5	0.8	C42Q2824-9W****+++
1.0	26.5	22.0	12.0	22.5	0.8	C42Q2105-9W****+++
1.2	26.5	24.5	15.5	22.5	0.8	C42Q2125-9W****+++
1.5	26.5	24.5	15.5	22.5	0.8	C42Q2155-9W****+++

305Vac						
C _R (μF)	W	H	T	P	d	Part number
0.47	32.0	18.0	9.0	27.5	0.8	C42Q2474-BW****+++
0.56	32.0	18.0	9.0	27.5	0.8	C42Q2564-BW****+++
0.68	32.0	18.0	9.0	27.5	0.8	C42Q2684-BW****+++
0.82	32.0	20.0	11.0	27.5	0.8	C42Q2824-BW****+++
1.0	32.0	20.0	11.0	27.5	0.8	C42Q2105-BW****+++
1.2	32.0	22.0	13.0	27.5	0.8	C42Q2125-BW****+++
1.5	32.0	22.0	13.0	27.5	0.8	C42Q2155-BW****+++
2.2	32.0	28.0	14.0	27.5	0.8	C42Q2225-BW****+++
2.7	32.0	33.0	18.0	27.5	0.8	C42Q2275-BW****+++
3.3	32.0	33.0	18.0	27.5	0.8	C42Q2335-BW****+++
3.9	32.0	37.0	22.0	27.5	0.8	C42Q2395-BW****+++
4.7	32.0	37.0	22.0	27.5	0.8	C42Q2475-BW****+++

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.