



規 格 承 認 書

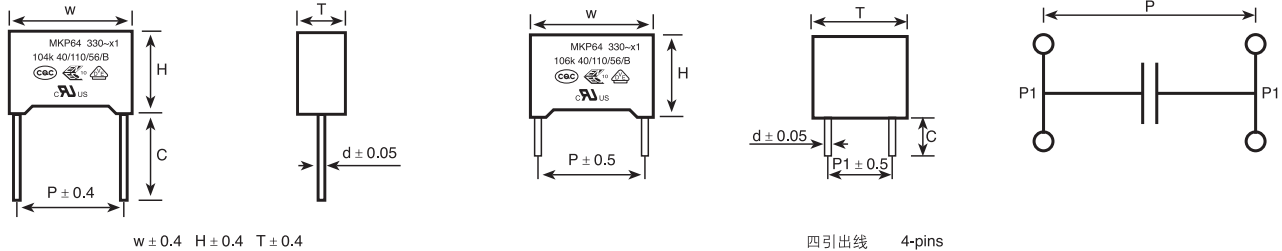
(SPECIFICATION FOR APPROVAL)

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

Product Name:	Metallized polypropylene film Interference suppression capacitor (Class X1 , 330Vac)
Product Type:	C44 (MKP64-X1)
Product Code:	C44
Customer:	
Customer Code:	
Issue Date:	(V3.0)

金属化聚丙烯膜抗干扰电容器(X1类, 330Vac) Metallized polypropylene film interference suppression capacitor(Class X1, 330Vac)

■ 外形图 Outline Drawing






■ 特点

- 金属化聚丙烯膜
- 能承受过压冲击
- 优异的阻燃性能
- 广泛用于电源跨线路等抗干扰场合

■ Features

- Metallized polypropylene film
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Widely used in across-the-line, interference suppression circuit, etc.

■ 安全认证 Safety Approvals

●		CQC (中国)	GB/T 14472-1998 X1, 330 Vac, 0.010μF~15.0μF,40/110/56/B 证书号(File No.): CQC060010169
●		ENEC-VDE (欧盟)	EN 60384-14:2005 X1, 330 Vac, 0.010μF~15.0μF,40/110/56/B 证书号(File No.):400219
●		UL/CUL (美国/加拿大)	UL60384-14:2009, CSA E60384-14:09, X1, 330Vac, 0.010μF~15.0μF, 40/110/56/B 证书号(File No.):E186600, CCN: FOWX2
●	CB TEST CERTIFICATE		IEC 60384-14:2005 X1, 330 Vac, 0.010μF~15.0μF, 40/110/56/B 证书号(File No.): DE1-495

■ 技术要求 Specifications

电容器类别 Class	X1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	330Vac, 50/60Hz		
最大连续直流电压 Maximum continuous DC voltage	760Vdc		
电容量范围 Capacitance Range	0.010μF~15.0μF		
电容量偏差 Capacitance Tolerance	± 10%(K)、 ± 20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	2 500(Vdc) (2s)	
	极壳之间 Between Terminals To Case:	2 160(Vac) (1min)	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _R ≤ 0.33μF RC ≥ 5 000s, C _R > 0.33μF (20℃, 100V, 1min)		
损耗角正切 Dissipation Factor	0.010μF < C _R ≤ 0.47μF	≤ 10 × 10 ⁻⁴ (1kHz, 20℃)	≤ 20 × 10 ⁻⁴ (10kHz, 20℃)
	0.47μF < C _R ≤ 1.0μF	≤ 20 × 10 ⁻⁴ (1kHz, 20℃)	≤ 40 × 10 ⁻⁴ (10kHz, 20℃)
	1.0μF < C _R ≤ 15.0μF	≤ 30 × 10 ⁻⁴ (1kHz, 20℃)	-----



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	4															

第1~3位	型号代码 C44=MKP64	Digit 1 to 3	Series code C44=MKP64
第4~5位	交流额定电压 R1=330V Q3=310V	Digit 4 to 5	AC rated voltage R1=330V Q3=310V
第6~8位	标称容量 举例: 103=10 × 10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value For example: 103=10 × 10 ³ pF=0.01μF
第9位	容量偏差 K= ± 10%, M= ± 20%	Digit 9	Capacitance tolerance K= ± 10%, M= ± 20%
第10位	引线脚距 P 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm	Digit 10	Pitch 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm
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 Digit 13		第14位 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	代码 Code	说明 explanation
A	弹带包装 ammo-pack	4 6	F=10.0mm F=15.0mm	0	表示直脚 straight	5	P3=25.4mm, H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to pag 17)
C	直脚 straight lead "C" in the figure above	代码 Code	说明 explanation			0	引线长度偏差 ± 0.5mm或标准长度 Length tolerance ± 0.5mm Or standard length
		00	标准的引线长度(18mm~26mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				
1 3 6	P1= 10mm ± 0.5mm P1= 20mm ± 0.5mm P1= 5mm ± 0.5mm	45 55	引线长度4.5mm lead length 4.5mm 引线长度5.5mm lead length 5.5mm			0	引线长度偏差 ± 0.5mm或标准长度 Length tolerance ± 0.5mm or standard length



MKP64
Code: C44

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

■ 外形尺寸 Dimensions(mm)

330Vac							330Vac							330Vac							
C _R (μF)	W	H	T	P	d	Part number	C _R (μF)	W	H	T	P	d	Part number	C _R (μF)	W	H	T	P	d	Part number	
0.010	13.0	9.0	4.0	10.0	0.6	C44R1103-4S****++	0.082	26.5	15.0	6.0	22.5	0.8	C44R1823-9S****++	2.2M	32.0	28.0	17.0	27.5	0.8	C44R1225MBS****++	
0.012	13.0	9.0	4.0	10.0	0.6	C44R1123-4S****++	0.10	26.5	15.0	6.0	22.5	0.8	C44R1104-9S****++	2.2	32.0	29.0	19.0	27.5	0.8	C44R1225-BA****++	
0.015	13.0	9.0	4.0	10.0	0.6	C44R1153-4S****++	0.12	26.5	15.0	6.0	22.5	0.8	C44R1124-9S****++	2.2	32.0	18.5	31.0	27.5	0.8	C44R1225-BC****++	
0.018	13.0	11.0	5.0	10.0	0.6	C44R1183-4S****++	0.15	26.5	15.0	6.0	22.5	0.8	C44R1154-9S****++	2.2	32.0	33.0	18.0	27.5	0.8	C44R1225-BS****++	
0.022	13.0	11.0	5.0	10.0	0.6	C44R1223-4S****++	0.18	26.5	15.0	6.0	22.5	0.8	C44R1184-9S****++	2.7	32.0	37.0	22.0	27.5	0.8	C44R1275-BS****++	
0.027	13.0	11.0	5.0	10.0	0.6	C44R1273-4S****++	0.22M	26.5	15.0	6.0	22.5	0.8	C44R1224M9S****++	3.3	32.0	37.0	22.0	27.5	0.8	C44R1335-BS****++	
0.033	13.0	11.0	5.0	10.0	0.6	C44R1333-4S****++	0.22K	26.5	16.0	7.0	22.5	0.8	C44R1224K9S****++	0.33	41.0	22.0	11.0	37.5	1.0	C44R1334-FS****++	
0.039	13.0	12.0	6.0	10.0	0.6	C44R1393-4S****++	0.27	26.5	16.0	7.0	22.5	0.8	C44R1274-9S****++	0.39	41.0	22.0	11.0	37.5	1.0	C44R1394-FS****++	
0.047	13.0	12.0	6.0	10.0	0.6	C44R1473-4S****++	0.33	26.5	17.0	8.5	22.5	0.8	C44R1334-9S****++	0.47	41.0	22.0	11.0	37.5	1.0	C44R1474-FS****++	
0.056	13.0	13.0	7.0	10.0	0.6	C44R1563-4S****++	0.39M	26.5	17.0	8.5	22.5	0.8	C44R1394M9S****++	0.56	41.0	22.0	11.0	37.5	1.0	C44R1564-FS****++	
0.068	13.0	14.0	8.0	10.0	0.6	C44R1683-4S****++	0.39K	26.5	18.5	10.0	22.5	0.8	C44R1394K9S****++	0.68	41.0	22.0	11.0	37.5	1.0	C44R1684-FS****++	
0.010	17.5	9.5	5.0	15.0	0.6	C44R1103-6S****++	0.47	26.5	18.5	10.0	22.5	0.8	C44R1474-9S****++	0.82	41.0	22.0	11.0	37.5	1.0	C44R1824-FS****++	
0.012	17.5	9.5	5.0	15.0	0.6	C44R1123-6S****++	0.56	26.5	20.0	11.0	22.5	0.8	C44R1564-9S****++	1.0	41.0	22.0	11.0	37.5	1.0	C44R1105-FS****++	
0.015	17.5	9.5	5.0	15.0	0.6	C44R1153-6S****++	0.68	26.5	22.0	12.0	22.5	0.8	C44R1684-9S****++	1.0	42.0	15.0	24.0	37.5	1.0	C44R1105-FC****++	
0.018	17.5	9.5	5.0	15.0	0.6	C44R1183-6S****++	0.82M	26.5	22.0	12.0	22.5	0.8	C44R1824M9S****++	1.2M	41.0	22.0	11.0	37.5	1.0	C44R1125MFS****++	
0.022	17.5	9.5	5.0	15.0	0.6	C44R1223-6S****++	0.82K	26.5	23.0	13.5	22.5	0.8	C44R1824K9S****++	1.2K	41.0	24.0	13.0	37.5	1.0	C44R1125KFS****++	
0.027	17.5	9.5	5.0	15.0	0.6	C44R1273-6S****++	1.0	26.5	24.5	15.5	22.5	0.8	C44R1105-9S****++	1.5	41.0	24.0	13.0	37.5	1.0	C44R1155-FS****++	
0.033	17.5	9.5	5.0	15.0	0.6	C44R1333-6S****++	1.2M	26.5	24.5	15.5	22.5	0.8	C44R1125M9S****++	1.5	41.0	26.0	12.0	37.5	1.0	C44R1155-FA****++	
0.039	17.5	9.5	5.0	15.0	0.6	C44R1393-6S****++	1.2	26.5	29.5	14.5	22.5	0.8	C44R1125-9A****++	1.5	42.0	15.0	24.0	37.5	1.0	C44R1155-FC****++	
0.047	17.5	11.0	5.0	15.0	0.6	C44R1473-6S****++	0.15	32.0	18.0	9.0	27.5	0.8	C44R1154-BS****++	1.8	41.0	26.0	15.0	37.5	1.0	C44R1185-FS****++	
0.056	17.5	11.0	5.0	15.0	0.6	C44R1563-6S****++	0.18	32.0	18.0	9.0	27.5	0.8	C44R1184-BS****++	2.2M	41.0	26.0	15.0	37.5	1.0	C44R1225MFA****++	
0.068	17.5	12.0	6.0	15.0	0.6	C44R1683-6S****++	0.22	32.0	18.0	9.0	27.5	0.8	C44R1224-BS****++	2.2M	42.0	28.0	14.0	37.5	1.0	C44R1225MFS****++	
0.082	17.5	12.0	6.0	15.0	0.6	C44R1823-6S****++	0.27	32.0	18.0	9.0	27.5	0.8	C44R1274-BS****++	2.2K	41.0	30.0	16.0	37.5	1.0	C44R1225KFS****++	
0.10	17.5	12.0	7.0	15.0	0.6	C44R1104-6S****++	0.33	32.0	18.0	9.0	27.5	0.8	C44R1334-BS****++	2.2	41.0	19.0	24.0	37.5	1.0	C44R1225-FC****++	
0.10	17.5	17.5	6.0	15.0	0.6	C44R1104-6A****++	0.39	32.0	18.0	9.0	27.5	0.8	C44R1394-BS****++	2.7	41.0	32.0	17.0	37.5	1.0	C44R1275-FS****++	
0.12	17.5	13.5	7.5	15.0	0.6	C44R1124-6S****++	0.47	32.0	18.0	9.0	27.5	0.8	C44R1474-BS****++	3.3M	41.0	20.0	26.0	37.5	1.0	C44R1335MFC****++	
0.12	17.5	17.5	6.0	15.0	0.6	C44R1124-6A****++	0.47	32.0	12.0	18.0	27.5	0.8	C44R1474-BC****++	3.3	41.0	33.5	18.5	37.5	1.0	C44R1335-FS****++	
0.12M	17.5	12.5	9.0	15.0	0.6	C44R1124M6B****++	0.56M	32.0	18.0	9.0	27.5	0.8	C44R1564MBS****++	3.9	41.0	37.0	22.0	37.5	1.0	C44R1395-FS****++	
0.15M	17.5	13.5	7.5	15.0	0.6	C44R1154M6S****++	0.56K	32.0	20.0	11.0	27.5	0.8	C44R1564KBS****++	4.7M	42.0	24.0	32.0	37.5	1.0	C44R1475MFC****++	
0.15K	17.5	14.0	8.0	15.0	0.6	C44R1154K6S****++	0.68	32.0	20.0	11.0	27.5	0.8	C44R1684-BS****++	4.7	41.0	37.0	22.0	37.5	1.0	C44R1475-FS****++	
0.15K	17.5	18.5	7.5	15.0	0.8	C44R1154K6A****++	0.68	32.0	12.0	22.0	27.5	0.8	C44R1684-BC****++	5.6	41.0	41.0	26.0	37.5	1.0	C44R1565-FS****++	
0.15	18.0	12.0	13.0	15.0	0.8	C44R1154-6C****++	0.82	32.0	20.0	11.0	27.5	0.8	C44R1824-BS****++	6.8M	41.0	41.0	26.0	37.5	1.0	C44R1685MFS****++	
0.18	17.5	14.5	8.5	15.0	0.6	C44R1184-6S****++	1.0M	32.0	12.0	22.0	27.5	0.8	C44R1105MBC****++	6.8K	41.0	43.0	28.0	37.5	1.0	C44R1685KFS****++	
0.18	17.5	18.5	7.5	15.0	0.8	C44R1184-6A****++	1.0M	32.0	22.0	13.0	27.5	0.8	C44R1105MBS****++	8.2	42.0	45.0	30.0	37.5	1.0	C44R1825-FS****++	
0.22M	17.5	14.5	8.5	15.0	0.6	C44R1224M6A****++	1.0K	32.0	25.0	13.0	27.5	0.8	C44R1105KBS****++	8.2	57.0	45.0	30.0	52.5	1.2	C44R1825-MS3****++	
0.22	17.5	16.0	10.0	15.0	0.8	C44R1224-6S****++	1.2	32.0	24.5	15.0	27.5	0.8	C44R1125-BS****++	10.0	57.0	45.0	30.0	52.5	1.2	C44R1106-MS3****++	
0.27	17.5	19.0	11.0	15.0	0.8	C44R1274-6S****++	1.2	32.0	28.0	14.0	27.5	0.8	C44R1125-BA****++	12.0	57.0	45.0	30.0	52.5	1.2	C44R1126-MS3****++	
0.33	17.5	19.0	11.0	15.0	0.8	C44R1334-6S****++	1.5	32.0	24.5	15.0	27.5	0.8	C44R1155-BS****++	15.0	57.0	50.0	35.0	52.5	1.2	C44R1156-MS3****++	
0.039	26.5	15.0	6.0	22.5	0.8	C44R1393-9S****++	1.5	32.0	28.0	14.0	27.5	0.8	C44R1155-BA****++								
0.047	26.5	15.0	6.0	22.5	0.8	C44R1473-9S****++	1.5	32.0	16.0	27.5	27.5	0.8	C44R1155-BC****++								
0.056	26.5	15.0	6.0	22.5	0.8	C44R1563-9S****++	1.8	32.0	28.0	17.0	27.5	0.8	C44R1185-BS****++								
0.068	26.5	15.0	6.0	22.5	0.8	C44R1683-9S****++	1.8	32.0	30.0	16.0	27.5	0.8	C44R1185-BA****++								

备注: 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 packaging code(refer to table 1)
 3.不用于与电源串联的场合,与电源串联用的电容器参见P142。
 Not for use in series with mains, the capacitors for series with mains, please refer Pag 142.