



規 格 承 認 書

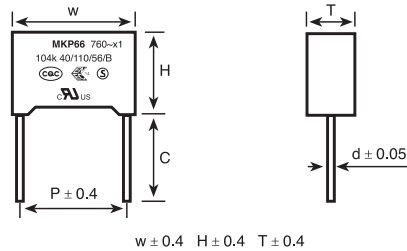
(SPECIFICATION FOR APPROVAL)

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

| | |
|----------------|--|
| Product Name: | Metallized polypropylene film Interference suppression capacitor (Class X1 , 760Vac) |
| Product Type: | C46 (MKP66-X1) |
| Product Code: | C46 |
| Customer: | |
| Customer Code: | |
| Issue Date: | (V3.0) |

金属化聚丙烯膜抗干扰电容器(X1类, 760Vac) Metallized polypropylene film interference suppression capacitor(Class X1, 760Vac)

■ 外形图 Outline Drawing



■ 特点

- 金属化聚丙烯膜
- 体积小
- 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
- Compact size
- 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) | IEC 60384-14:2005, X1, 760 Vac, 0.0010 μ F~2.2 μ F, 40/110/56/B 证书号(Certificate No.): CQC080010265 |
| ● |  | ENEC-SEMKO (欧盟) | EN 60384-14:2005, X1, 760 Vac, 0.0010 μ F~2.2 μ F, 40/110/56/B 证书号(Certificate No.): SE/0366-3A, Test Report No.: 9165 |
| ● |  | UL/CUL (美国/加拿大) | UL60384-14:2009, CSA E60384-14:09, X1, 760Vac, 0.0010 μ F~2.2 μ F, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2 |
| ● | CB TEST CERTIFICATE | | IEC 60384-14:2005, X1, 760 Vac, 0.0010 μ F~2.2 μ F, 40/110/56/B 证书号(Certificate No.): SE-604 |

■ 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 $^{\circ}$ C ~ +110 $^{\circ}$ C | | |
| 额定电压 U_R Rated Voltage | 760Vac, 50/60Hz | | |
| 最大连续直流电压 Maximum continuous DC voltage | 1 500Vdc | | |
| 电容量范围 Capacitance Range | 0.0010 μ F~2.2 μ F | | |
| 电容量偏差 Capacitance Tolerance | $\pm 10\%$ (K)、 $\pm 20\%$ (M) | | |
| 耐电压 Voltage Proof | 引线之间 Between Terminals: | 4 250(Vdc) (2s) | |
| | 极壳之间 Between Terminals To Case: | 3 020(Vac) (1min) | |
| 绝缘电阻 Insulation Resistance | $R \geq 15\,000\Omega$, $C_R \leq 0.33\mu F$ $RC \geq 5\,000s$, $C_R > 0.33\mu F$ (20 $^{\circ}$ C, 500V, 1min) | | |
| 损耗角正切 Dissipation Factor | 0.0010 μ F $\leq C_R \leq 0.47\mu F$ | $\leq 10 \times 10^{-4}$ (1kHz, 20 $^{\circ}$ C) | $\leq 20 \times 10^{-4}$ (10kHz, 20 $^{\circ}$ C) |
| | 0.47 μ F $< C_R \leq 1.0\mu F$ | $\leq 20 \times 10^{-4}$ (1kHz, 20 $^{\circ}$ C) | $\leq 40 \times 10^{-4}$ (10kHz, 20 $^{\circ}$ C) |
| | 1.0 μ F $< C_R$ | $\leq 30 \times 10^{-4}$ (1kHz, 20 $^{\circ}$ C) | ----- |



MKP66
Code: C46

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 | 6 | | | | | | | | | | | | | | | |

| | | | |
|---------|--|----------------|--|
| 第1~3位 | 型号代码 C46=MKP66 | Digit 1 to 3 | Series code C46=MKP66 |
| 第4~5位 | 交流额定电压 V2=760V | Digit 4 to 5 | AC rated voltage V2=760V |
| 第6~8位 | 标称容量 举例: 103=10 x 10 ³ pF=0.01μF | Digit 6 to 8 | Rated capacitance value For example: 103=10 x 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 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm | Digit 10 | Pitch 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm |
| 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 | 6 | F=15.0mm | 0 | 表示直脚 straight | 5 | P3=25.4mm, H=18.5mm (For pitch=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 | | | | |



MKP66
Code: C46

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

■ 外形尺寸 Dimensions(mm)

| 760Vac | | | | | | |
|------------------------|------|------|------|------|-----|--------------------|
| C _R (μF) | W | H | T | P | d | Part number |
| 0.0010 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C46V2102-6S****+++ |
| 0.0012 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C46V2122-6S****+++ |
| 0.0015 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C46V2152-6S****+++ |
| 0.0018 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C46V2182-6S****+++ |
| 0.0022 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C46V2222-6S****+++ |
| 0.0027 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C46V2272-6S****+++ |
| 0.0033 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C46V2332-6S****+++ |
| 0.0047 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C46V2472-6S****+++ |
| 0.0056 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C46V2562-6S****+++ |
| 0.0068 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C46V2682-6S****+++ |
| 0.0082 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C46V2822-6S****+++ |
| 0.010 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C46V2103-6S****+++ |
| 0.012 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C46V2123-6S****+++ |
| 0.015 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C46V2153-6S****+++ |
| 0.018 | 17.5 | 12.0 | 7.0 | 15.0 | 0.6 | C46V2183-6S****+++ |
| 0.022 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C46V2223-6S****+++ |
| 0.027 | 17.5 | 14.0 | 8.0 | 15.0 | 0.6 | C46V2273-6S****+++ |
| 0.033 | 17.5 | 14.5 | 8.5 | 15.0 | 0.6 | C46V2333-6S****+++ |
| 0.039 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C46V2393-6S****+++ |
| 0.047M | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C46V2473M6S****+++ |
| 0.047K | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C46V2473K6S****+++ |
| 0.056 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C46V2563-6S****+++ |
| 0.068M | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C46V2683M6S****+++ |
| 0.010 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2103-90****+++ |
| 0.012 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2123-90****+++ |
| 0.015 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2153-90****+++ |
| 0.018 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2183-90****+++ |
| 0.022 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2223-90****+++ |
| 0.027 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2273-90****+++ |
| 0.033 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2333-9S****+++ |
| 0.039 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2393-9S****+++ |
| 0.047 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C46V2473-9S****+++ |
| 0.056 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C46V2563-9S****+++ |
| 0.068 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C46V2683-9S****+++ |
| 0.082 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C46V2823-9S****+++ |
| 0.10M | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C46V2104M9S****+++ |
| 0.10K | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C46V2104K9A****+++ |
| 0.12 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C46V2124-9S****+++ |
| 0.15 | 26.5 | 20.0 | 11.0 | 22.5 | 0.8 | C46V2154-9S****+++ |
| 0.18 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C46V2184-9S****+++ |
| 0.22M | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C46V2224M9S****+++ |
| 0.22K | 26.5 | 23.0 | 13.5 | 22.5 | 0.8 | C46V2224K9S****+++ |
| 0.27 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C46V2274-9S****+++ |
| 0.33M | 26.5 | 29.5 | 14.5 | 22.5 | 0.8 | C46V2334M9S****+++ |

| 760Vac | | | | | | |
|------------------------|------|------|------|------|-----|--------------------|
| C _R (μF) | W | H | T | P | d | Part number |
| 0.068 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C46V2683-B0****+++ |
| 0.082 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C46V2823-B0****+++ |
| 0.10 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C46V2104-BS****+++ |
| 0.10 | 32.0 | 12.0 | 18.0 | 27.5 | 0.8 | C46V2104-BC****+++ |
| 0.12 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C46V2124-BS****+++ |
| 0.15M | 32.0 | 12.0 | 18.0 | 27.5 | 0.8 | C46V2154MBC****+++ |
| 0.15K | 32.0 | 12.0 | 22.0 | 27.5 | 0.8 | C46V2154KBC****+++ |
| 0.15 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C46V2154-BS****+++ |
| 0.18 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C46V2184-BS****+++ |
| 0.22 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C46V2224-BS****+++ |
| 0.22M | 32.0 | 12.0 | 22.0 | 27.5 | 0.8 | C46V2224MBC****+++ |
| 0.22K | 32.0 | 16.0 | 22.0 | 27.5 | 0.8 | C46V2224KBC****+++ |
| 0.27 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C46V2274-BS****+++ |
| 0.33 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C46V2334-BS****+++ |
| 0.33 | 32.0 | 28.0 | 14.0 | 27.5 | 0.8 | C46V2334-BA****+++ |
| 0.33 | 32.0 | 16.0 | 27.5 | 27.5 | 0.8 | C46V2334-BC****+++ |
| 0.39 | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | C46V2394-BA****+++ |
| 0.39 | 32.0 | 30.0 | 16.0 | 27.5 | 0.8 | C46V2394-BS****+++ |
| 0.47M | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | C46V2474MBA****+++ |
| 0.47K | 32.0 | 29.0 | 19.0 | 27.5 | 0.8 | C46V2474KBA****+++ |
| 0.47 | 32.0 | 30.0 | 16.0 | 27.5 | 0.8 | C46V2474-BS****+++ |
| 0.47 | 32.0 | 18.5 | 31.0 | 27.5 | 0.8 | C46V2474-BC****+++ |
| 0.56 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C46V2564-BS****+++ |
| 0.68 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C46V2684-BS****+++ |
| 0.33 | 41.0 | 26.0 | 12.0 | 37.5 | 1.0 | C46V2334-FS****+++ |
| 0.33 | 41.0 | 24.0 | 13.0 | 37.5 | 1.0 | C46V2334-FA****+++ |
| 0.33 | 42.0 | 15.0 | 24.0 | 37.5 | 1.0 | C46V2334-FC****+++ |
| 0.39 | 41.0 | 26.0 | 12.0 | 37.5 | 1.0 | C46V2394-FS****+++ |
| 0.39 | 41.0 | 24.0 | 13.0 | 37.5 | 1.0 | C46V2394-FA****+++ |
| 0.47M | 41.0 | 15.0 | 24.0 | 37.5 | 1.0 | C46V2474MFC****+++ |
| 0.47 | 41.0 | 26.0 | 15.0 | 37.5 | 1.0 | C46V2474-FS****+++ |
| 0.47 | 42.0 | 28.0 | 14.0 | 37.5 | 1.0 | C46V2474-FA****+++ |
| 0.56 | 41.0 | 30.0 | 16.0 | 37.5 | 1.0 | C46V2564-FS****+++ |
| 0.68M | 42.0 | 19.0 | 24.0 | 37.5 | 1.0 | C46V2684MFC****+++ |
| 0.68K | 41.0 | 20.0 | 26.0 | 37.5 | 1.0 | C46V2684KFC****+++ |
| 0.68 | 41.0 | 30.0 | 16.0 | 37.5 | 1.0 | C46V2684-FS****+++ |
| 0.82 | 41.0 | 33.5 | 18.5 | 37.5 | 1.0 | C46V2824-FS****+++ |
| 1.0M | 41.0 | 33.5 | 18.5 | 37.5 | 1.0 | C46V2105MFS****+++ |
| 1.0K | 41.0 | 37.0 | 22.0 | 37.5 | 1.0 | C46V2105KFS****+++ |
| 1.0 | 42.0 | 24.0 | 32.0 | 37.5 | 1.0 | C46V2105-FC****+++ |
| 1.2 | 41.0 | 37.0 | 22.0 | 37.5 | 1.0 | C46V2125-FS****+++ |
| 1.5 | 41.0 | 41.0 | 26.0 | 37.5 | 1.0 | C46V2155-FS****+++ |
| 1.5 | 41.5 | 37.5 | 27.5 | 37.5 | 1.0 | C46V2155-FA****+++ |
| 1.8M | 41.0 | 41.0 | 26.0 | 37.5 | 1.0 | C46V2185MFS****+++ |
| 1.8M | 41.5 | 37.5 | 27.5 | 37.5 | 1.0 | C46V2185MFA****+++ |
| 1.8K | 41.0 | 43.0 | 28.0 | 37.5 | 1.0 | C46V2185KFS****+++ |
| 2.2M | 42.0 | 45.0 | 30.0 | 37.5 | 1.0 | C46V2225MFS****+++ |

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 packing code(refer to table 1)