

东莞市全鹏电子科技有限公司
DONGGUON CHAMPION ELECTRONIC TECHNOLOGY CO., LTD.

承認書 (APPROVAL SHEET)

| | |
|--------------------------|--|
| 品名 PART NAME | METALLIZED POLYPROPYLENE FILM CAPACITOR (MPX-QP) |
| 承認規格 APPROVE ITEM | X2-安規系列 |
| 全鵬料號 CHAMPION PART NO | |
| 客戶名稱 CUSTOMER | 立創商城 |
| 客戶料號 PART NO | |
| 送樣承認日期 DATE | 2018.08.24 |

承認印
APPROVAL STAMP

| 供應商 VENDER | 客戶 CUSTOMER |
|--|----------------|
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东莞市全鹏电子科技有限公司

制作日期

2018-08-24

版本

07

文件名称

MPX Approval Sheet-QP
(BOX-TYPE Metallized Polypropylene
Film Interference Suppression Capacitor)

文件编号

QP-AP-28

页码

07/01

1. Scope:

This specification applied to capacitor for type MPX(BOX-TYPE Metallized Polypropylene Film Interference Suppression Capacitor)

2. Operation Temperature:

-40°C ~ +110°C

3. Capacitance Range:

0.001uF ~ 4.7uF

4. Capacitance Tolerance:

±5%(J)、±10%(K)、±20%(M)

5. Rated Voltage:

250VAC/275VAC/300VAC/310VAC/330VAC/350VAC(50~60 Hz)

6. Approvals File No

| | Related Standard | Certificate No | Approved Monogram |
|------|--|----------------|---|
| UL | UL 60384-14 | E477525 |  |
| ENEC | EN60384-14: 2013 | ENEC-01273 |  |
| VDE | EN60384-14: 2006-04 IEC60384-14(ed.3) | 40044148 |  |



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| Related Standard | | Certificate No | Approved Monogram |
|------------------|---|---|---|
| CQC | IEC60384-14:2005 | CQC16001141991 |  |
| KC | KC60384-14(2015-09) KC60384-1(2015-09) | SU03097-17001 SU03097-17002 SU03097-17003 SU03097-17004 SU03097-17005 |  |

7. CHAMPION Part No.:

1 (tape) 2 (capacitance) 3 (tolerance) 4 (Rated Voltage) 5 (Box Type) 6 (lead forming) 7 (lead pitch) 8 (lead length)

7-1 tape:

| | |
|------|------|
| Code | SMQP |
| Tape | X2QP |

7-2 Capacitance:

| | | | | |
|-------------|----------|---------|-------|--------|
| Code | 472 | 103 | 104 | 205 |
| Capacitance | 0.0047uF | 0.01 uF | 0.1uF | 2.0 uF |



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7-3 Tolerance:

| | | | |
|-----------|-----|------|------|
| Code | J | K | M |
| Tolerance | ±5% | ±10% | ±20% |

7-4 Rated Voltage:

| | | | | | |
|--------|--------|--------|--------|--------|--------|
| 250 | 275 | 300 | 310 | 330 | 350 |
| 250VAC | 275VAC | 300VAC | 310VAC | 330VAC | 350VAC |

7-5BOX TYPE:

| | | | | |
|----------|-------------------------|--------------------------|--------------------------|--------------------------|
| Code | XXB5 | XXC2 | XXC3 | C5-1 |
| Size(mm) | 10(W) × 6(T) × 12(H) | 12(W) × 5(T) × 11(H) | 13(W) × 6(T) × 12(H) | 13(W) × 8(T) × 14(H) |
| Code | XXD7 | XXD2 | XXD4 | XXD5 |
| Size(mm) | 18(W) × 10.8(T) × 19(H) | 18(W) × 6(T) × 12(H) | 18(W) × 8.4(T) × 14.5(H) | 18(W) × 9.5(T) × 15.5(H) |
| Code | XXE1 | XXE2 | XXE3 | XXE4 |
| Size(mm) | 26.5(W) × 6(T) × 15(H) | 26.5(W) × 7(T) × 16.5(H) | 26.5(W) × 8.5(T) × 17(H) | 26.5(W) × 10(T) × 19(H) |
| Code | XXF1 | XXF2 | XXF3 | XXF4 |
| Size(mm) | 31.4(W) × 11(T) × 20(H) | 31.5(W) × 13(T) × 22(H) | 31(W) × 14(T) × 25(H) | 32(W) × 16(T) × 25.5(H) |

7-6Lead forming:

| | | | | | | |
|--------------|---|---|---|---|--------|--------------------------|
| Code | B | R | U | W | T | S |
| Lead Forming | | | | | TAPING | Customer Special Require |

7-7 Lead Pitch: Showing the capacitor lead pitch, For example:

| | | | | | |
|-----------|------|------|--------|--------|------|
| Code | 10 | 15 | 23 | 28 | 31 |
| Pitch(mm) | 10mm | 15mm | 22.5mm | 27.5mm | 31mm |

7-8 Lead length: Showing the capacitor lead Length, For example:

| | | | | | | | |
|------------|-----|-----|------|------|------|------|------|
| Code | 04 | 08 | 10 | 15 | 25 | 30 | 40 |
| Length(mm) | 4mm | 8mm | 10mm | 15mm | 25mm | 30mm | 40mm |



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8. Specifications (IEC60384-14)

| No | Test items | Performance | Test Method |
|-----|--|---|---|
| 8-1 | Withstand voltage (Between Terminals) | Shall be no abnormality | $4.3 \times UR$ (DC)Test Of60sec. |
| | Between terminal and Enclosure | Shall be no abnormality | $UR \times 200\% + 1500VAC$, 60sec. |
| 8-2 | Insulation resistance (Between Terminals) | $C_R \leq 0.33\mu F$ IR $\geq 15,000M\Omega$ $C_R > 0.33\mu F$ IR $\geq 5,000 M\Omega \div C(\mu F)$ | Measured at $100 \pm 15VDC$, For 60sec / $25^\circ C$ |
| 8-3 | Capacitance | Within the tolerance specified | 1KHz, 1Vrms Max. at $25^\circ C$ |
| 8-4 | Dissipation Factor | 0.001 (0.1%) Max. | 1KHz, 1Vrms Max. at $25^\circ C$ |



| | | | | | |
|------|---|------|----------|----|-------|
| 文件名称 | MPX Approval Sheet-QP (BOX-TYPE Metallized Polypropylene Film Interference Suppression Capacitor) | 文件编号 | QP-AP-28 | 页码 | 07/05 |
|------|---|------|----------|----|-------|

| | | | |
|------|------------------------------|---|--|
| 8-5 | Tense Strength of Terminal | No wire breakage and No Damage of Capacitor | 1. Load Force : 1.0 Kg 2. Holding Time : 10 ± 1sec |
| 8-6 | Bending Strength of Terminal | No wire breakage and No Damage of Capacitor | 1. Load Force : 0.5 Kg 2. Bending Time : 4 x 90 ° in 5sec |
| 8-7 | Solder-ability | 95% Of The Surface Tinning | a. Solder temperature: 270 ± 5 °C b. Solder time: 2 ± 0.5sec |
| 8-8 | Heat Shock test | (1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : ≤ ± 3% of The Initial Value | The terminal of capacitor shall be immersed in the melting solder. a. Solder temperature: 270 ± 5 °C b. Solder time: 3 ± 0.5sec c. Test Voltage: 150% of The Rate Voltage For 1min. |
| 8-9 | Cold Resistance | (1) Appearance : No Visible Damage (2) Capacitance Change : ≤ 0~ -10% of The Initial Value | a. Test Temperature: -40 °C b. Test Times: 2Hrs |
| 8-10 | Dry Heat Resistance | (1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : ≤ +5~ -2% Of The Initial Value (4) Insulation Resistance: ≥ 50% of the rated value | a. TEST TEMPERATURE: 110 °C ± 2 °C b. Test Times: 2Hrs |

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MPX Approval Sheet-QP
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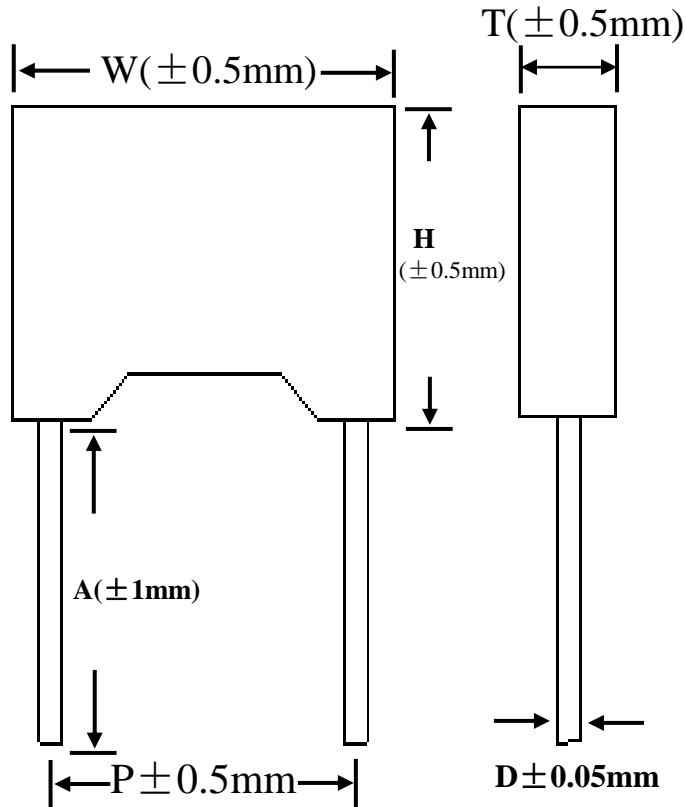
文件编号

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07/06

9. Dimensions:



10. Specification size reference:

容量单位: nF, 尺寸单位: mm

| 容量代码 | 标称容量 | 宽 (W) | 高 (H) | 厚 (T) | 线径 | 容量代码 | 标称容量 | 宽 (W) | 高 (H) | 厚 (T) | 线径 |
|------|------|-------|-------|-------|-----|------|------|-------|-------|-------|-----|
| 102 | 1 | 12 | 11 | 5 | 0.6 | 334 | 330 | 26.5 | 16.5 | 7 | 0.8 |
| 222 | 2.2 | 12 | 11 | 5 | 0.6 | 394 | 390 | 18 | 14.5 | 8.4 | 0.8 |
| 332 | 3.3 | 12 | 11 | 5 | 0.6 | 474 | 470 | 18 | 13.5 | 7.5 | 0.8 |
| 472 | 4.7 | 12 | 11 | 5 | 0.6 | 474 | 470 | 18 | 14.5 | 8.4 | 0.8 |
| 562 | 5.6 | 12 | 11 | 5 | 0.6 | 474 | 470 | 18 | 15.5 | 9.5 | 0.8 |
| 682 | 6.8 | 12 | 11 | 5 | 0.6 | 474 | 470 | 26.5 | 19 | 10 | 0.8 |
| 822 | 8.2 | 12 | 11 | 5 | 0.6 | 684 | 680 | 31.4 | 19.5 | 10.8 | 0.8 |
| 103 | 10 | 13 | 11 | 5 | 0.6 | 564 | 560 | 18 | 15.5 | 9.5 | 0.8 |
| 153 | 15 | 13 | 11 | 5 | 0.6 | 684 | 680 | 18 | 15.5 | 9.5 | 0.8 |
| 223 | 22 | 13 | 11 | 5 | 0.6 | 684 | 680 | 18 | 19 | 10.8 | 0.8 |
| 333 | 33 | 13 | 11 | 5 | 0.6 | 824 | 820 | 18 | 19 | 10.8 | 0.8 |
| 473 | 47 | 13 | 12 | 6 | 0.6 | 105 | 1000 | 26.5 | 19 | 10 | 0.8 |
| 683 | 68 | 13 | 12 | 6 | 0.6 | 105 | 1000 | 31.4 | 19.5 | 10.8 | 0.8 |
| 823 | 82 | 13 | 12 | 6 | 0.6 | 125 | 1200 | 31.4 | 19.5 | 10.8 | 0.8 |
| 104 | 100 | 13 | 12 | 6 | 0.6 | 155 | 1500 | 31.4 | 19.5 | 10.8 | 0.8 |
| 104 | 100 | 18 | 12 | 6 | 0.8 | 185 | 1800 | 31.5 | 21.6 | 13 | 0.8 |
| 154 | 150 | 18 | 12 | 6 | 0.8 | 205 | 2000 | 31.5 | 21.6 | 13 | 0.8 |
| 224 | 220 | 18 | 12 | 6 | 0.8 | 225 | 2200 | 31.5 | 21.6 | 13 | 0.8 |
| 224 | 220 | 18 | 14.5 | 8.4 | 0.8 | 305 | 3000 | 31 | 25 | 14 | 0.8 |
| 224 | 220 | 26.5 | 16.5 | 7 | 0.8 | 335 | 3300 | 31 | 25 | 14 | 0.8 |
| 334 | 330 | 18 | 13.5 | 7.5 | 0.8 | 355 | 3500 | 31 | 25 | 14 | 0.8 |
| 334 | 330 | 18 | 14.5 | 8.4 | 0.8 | 475 | 4700 | 32 | 28 | 18 | 0.8 |



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11. Marking:



12. Storage conditions and duration

Packaged capacitors should be kept in clean, ventilated, dry coffers, not near the heat source, not subject to direct sunlight, is strictly prohibited and chemical reagents, acid and harmful gas storage together.

Capacitor at a temperature within the range 20 ~ 25 °C, humidity less than 50% of the state of storage for one year.

| | |
|-----------|---|
| | CHAMPION CO. LOGO |
| 0.33 | CAPACITANCE |
| K | CAPACITANCE TOLERANCE |
| 275 | RATED VOLTAGE |
| V | AC VOLTAGE |
| X2 | BOX-TYPE METALLIZED POLYPROPYLENE FILM |
| 40/110/56 | G-Working Lowest Temperature (-40°C) M-Working highest Temperature (+110°C) F- Working Times (56days) |

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