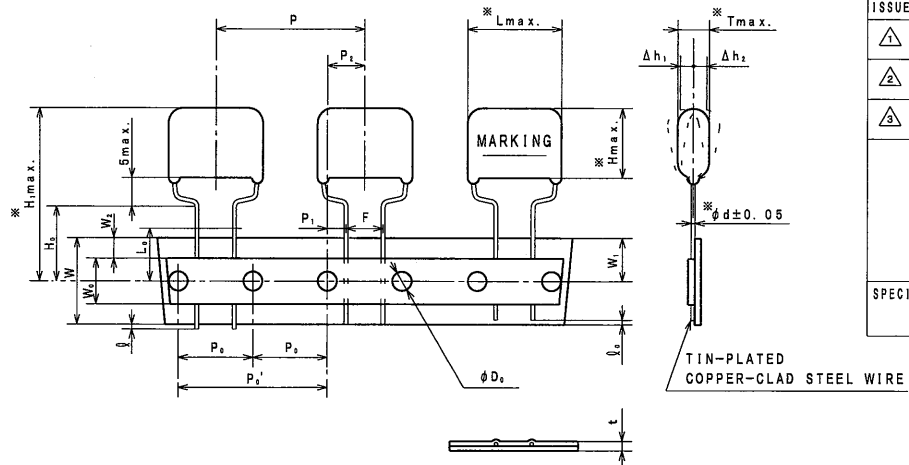


THIRD ANGLE PROJECTION

| ITEM CODE | CAP. μF (*) | DIMENSIONS | | | | |
|------------------|------------------|------------|-----|------|-----|-----------------|
| | | ※L | ※T | ※H | ※d | ※H ₁ |
| ECQE10103R () F | 0.01 (103) | 15.5 | 6.0 | 11.0 | 0.6 | 33.0 |
| " 10123R () F | 0.012 (123) | " | " | 12.0 | " | 34.0 |
| " 10153R () F | 0.015 (153) | " | " | 12.5 | " | 34.5 |
| " 10183R () F | 0.018 (183) | " | " | 13.0 | 0.8 | 35.0 |
| " 10223R () F | 0.022 (223) | " | " | 15.5 | " | 37.5 |
| " 10273R () F | 0.027 (273) | 21.0 | 6.0 | 13.0 | " | 35.0 |
| " 10333R () F | 0.033 (333) | " | " | 14.0 | " | 36.0 |
| " 10393R () F | 0.039 (393) | " | " | 14.5 | " | 36.5 |
| " 10473R () F | 0.047 (473) | " | " | 15.5 | " | 37.5 |
| " 10563R () F | 0.056 (563) | " | " | 17.0 | " | 39.0 |
| " 10683R () F | 0.068 (683) | " | " | 18.0 | " | 40.0 |
| " 10823R () F | 0.082 (823) | " | " | 18.5 | " | 40.5 |
| " 10104R () F | 0.1 (104) | " | " | 20.0 | " | 42.0 |

TOL. SYMBOL (J or K)

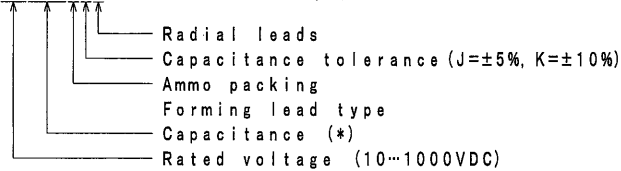


| ALTERATION | | |
|------------|----------------------|-------------|
| ISSUE | DESCRIPTION | DATE |
| △ | Company name changed | Apr. 1 2012 |
| △ | Company name changed | Apr. 1 2013 |
| △ | Company name changed | Apr. 1 2015 |

SPECIFICATIONS No.
TEB7170H

ITEM CODE NUMBER STRUCTURE

ECQE 10103RKF (1000VDC, 0.01μF, ±10%)



| SYMBOL | ITEM | DIMENSION | REMARKS |
|-------------------|-----------------------------|--------------------------------------|--|
| P | Pitch of component | 30.0±1.0 | Tilt of component and curvature of leads shall be included. |
| P ₀ ' | Feed hole pitch | 30.0±0.2 | |
| P ₀ | " | 15.0±0.2 | |
| P ₁ | Feed hole center to lead | 3.75±0.5 | |
| P ₂ | Hole center to comp. center | 7.5±1.3 | Tilt of component due to curvature of leads shall be included. |
| F | Lead-to-lead distance | 7.5 ^{+0.2} _{-0.2} | |
| Δh _{1,2} | Component alignment | 0~2.0 | Tilt of component due to curvature of leads shall be included. |
| W | Paper backing width | 18.0±0.5 | |
| W ₀ | Adhesive tape width | 12.5min. | The hold down tape shall not protrude beyond the carrier tape. |
| W ₁ | Hole position | 9.0±0.5 | |
| W ₂ | Hold-down tape position | 0~3.0 | |
| H ₀ | Lead-wire clinch height | 16.0 ^{+0.2} _{-0.2} | |
| ‡ | Lead-wire protrusion | 0max. | |
| ‡ | Lead-wire depression | 7.0max. | |
| φD ₀ | Feed hole diameter | 4.0±0.2 | |
| t | Total tape thickness | 0.7±0.2 | Total thickness including the hold down tape. |
| L ₀ | Length of snapped lead | 11.0max. | |

CONSTRUCTION

The capacitor is of non-inductive construction, wound with metallized polyester film dielectric.
The capacitor is enclosed in non-combustible epoxy resin and has two leads.

MARKING

Marking comprises capacitance, capacitance tolerance, rated voltage, type name, manufacturer's trademark and date code.

PROPERTIES

Capacitance : See table at 1kHz
 Capacitance tolerance : ±5% (J), ±10% (K) at 1kHz
 Rated voltage : 125VAC※/1000VDC (Derating of rated voltage by 1.25%/°C at more than 85°C)
 Withstand voltage (terminal-terminal) : 1000VDCx175% for 2s~5s (1000VAC for 60s)
 (terminal-enclosure) : 1500VAC for 60s
 Insulation resistance : ≥10000MΩ at 100VDC, 20°C for 60s
 : ≥2000MΩ at 500VDC, 20°C for 60s
 Dissipation factor : ≤1.0% at 1kHz, 20°C
 Category temperature range : From -40°C to +105°C (including temperature rise on unit surface)

MARKING EXAMPLE

Ⓜ 103 K
 Q-E 1000V
 125V ~ ← date code

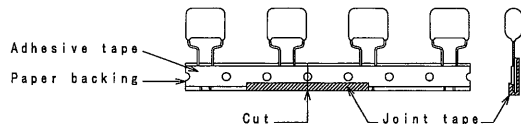
Reference

| | | |
|---------------|-------------------------------------|--|
| DESIGN | <i>Mr. Aichida</i> | |
| CHECKED | <i>K. Oaki</i> | |
| APPROVAL | <i>T. Takata</i> | |
| ESTABLISHMENT | Apr. 27, 2011 | |
| TYPE NAME | ECQE10***R () F | |
| NAME | Metallized Polyester Film Capacitor | |
| DRAWING NAME | PRODUCT DRAWING | |
| DRAWING No. | A004M-J-E (1/2) | |

Toyama-Matsue Plant
 Device Solutions Business Division
 Panasonic Corporation

※When capacitor use in primary side of power source as across the line capacitor, this capacitor can used in Japan only.

- Note 1. No more than 2 consecutive missing is permitted.
 Note 2. A tape conjunction and a tape discrepancy specify as follows.

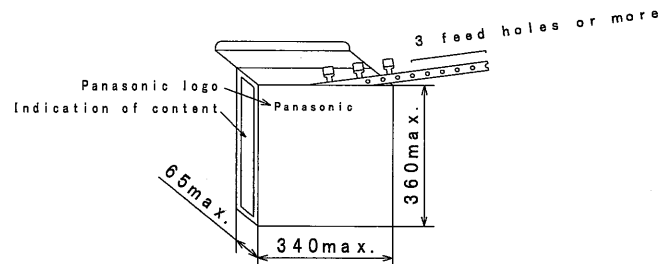


A tape sliding shall not exceed in an allowance of "P₀" dimension.
 A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- Note 3. Marking on components may not be the same side.
 Note 4. The tape adhesion is more than 3.92N (400gf) / 25mm.
 Note 5. A tape trailer having at least 3 feed holes is required at the end of the tape.

Packing specification

1. Case size
Ammo pack



2. Packing quantity

| Capacitance range | Packing quantity |
|-----------------------|------------------|
| 0.01 ~ 0.015 μ F | 500 |
| 0.027 ~ 0.039 μ F | |
| 0.018 ~ 0.022 μ F | 400 |
| 0.047 ~ 0.068 μ F | |
| 0.082 ~ 0.1 μ F | 300 |

3. Handling notes

- 1) One package must be packed one product only.
- 2) The storage must be stacked 5 boxes or less (surface printed placing upward).
 (For prevention from displacement of capacitors and damage of lead crimping.)
- 3) The packing box must be handled with care and never thrown out.

Reference

| | |
|-------------|-----------------|
| TYPE NAME | ECQE10***R () F |
| DRAWING No. | A004M-J-E (2/2) |

Toyama-Matsue Plant
 Device Solutions Business Division
 Panasonic Corporation