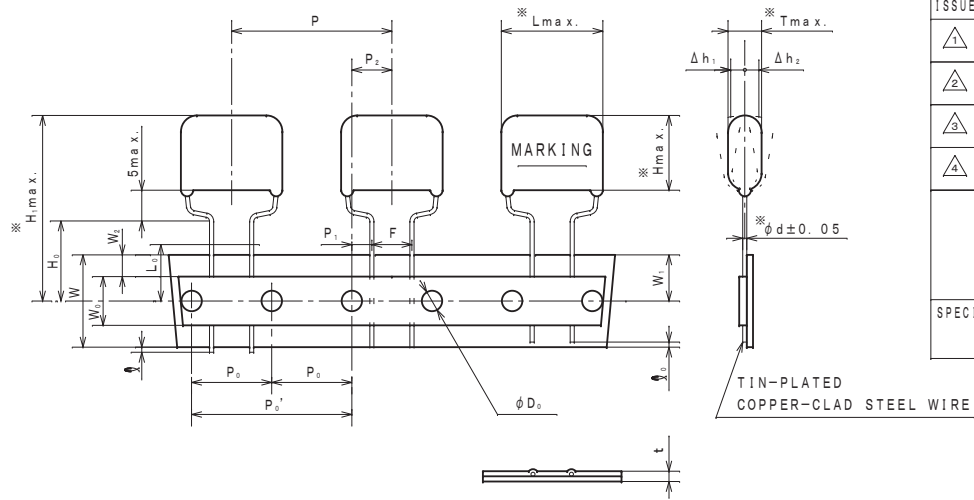


ITEM CODE	CAP. μF ( * )	DIMENSIONS					
		※L	※T	※H	※d	※H <sub>1</sub>	
ECQE10103R ( ) F	0.01 (103)	15.5	6.0	11.0	0.6	33.0	
" 10123R ( ) F	0.012 (123)	"	"	12.0	"	34.0	
" 10153R ( ) F	0.015 (153)	"	7.0	12.5	"	34.5	
" 10183R ( ) F	0.018 (183)	"	7.5	13.0	0.8	35.0	
" 10223R ( ) F	0.022 (223)	"	"	15.5	"	37.5	
" 10273R ( ) F	0.027 (273)	21.0	6.0	13.0	"	35.0	
" 10333R ( ) F	0.033 (333)	"	6.5	14.0	"	36.0	
" 10393R ( ) F	0.039 (393)	"	7.0	14.5	"	36.5	
" 10473R ( ) F	0.047 (473)	"	7.5	15.5	"	37.5	
" 10563R ( ) F	0.056 (563)	"	"	17.0	"	39.0	
" 10683R ( ) F	0.068 (683)	"	8.5	18.0	"	40.0	
" 10823R ( ) F	0.082 (823)	"	9.0	18.5	"	40.5	
" 10104R ( ) F	0.1 (104)	"	10.0	20.0	"	42.0	

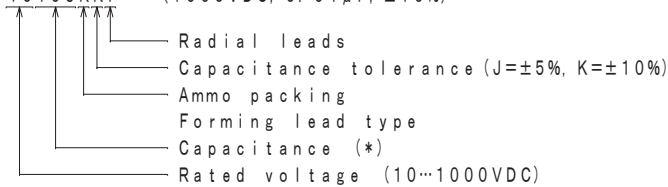
TOL. SYMBOL (J or K)



ALTERATION		
ISSUE	DESCRIPTION	DATE
△	Company name changed	Apr. 1 2012
△	Company name changed	Apr. 1 2013
△	Company name changed	Apr. 1 2015
△	Company name changed	Apr. 1 2022
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 <sub>0</sub> '	Feed hole pitch	30.0±0.2	
P <sub>0</sub>	"	15.0±0.2	
P <sub>1</sub>	Feed hole center to lead	3.75±0.5	
P <sub>2</sub>	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±0.8	
Δh <sub>1,2</sub>	Component alignment	0~2.0	Tilt of component due to curvature of leads shall be included.
W <sub>2</sub>	Paper backing width	18.0±0.5	
W <sub>0</sub>	Adhesive tape width	12.5min.	The hold down tape shall not protrude beyond the carrier tape.
W <sub>1</sub>	Hole position	9.0±0.5	
W <sub>2</sub>	Hold-down tape position	0~3.0	
H <sub>0</sub>	Lead-wire clinch height	16.0 <sup>+1.0</sup> <sub>0</sub>	
↑	Lead-wire protrusion	0max.	
↓	Lead-wire depression	7.0max.	
φD <sub>0</sub>	Feed hole diameter	4.0±0.2	
t	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
L <sub>0</sub>	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)	: 1000VDC x 175% 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)

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

MARKING EXAMPLE

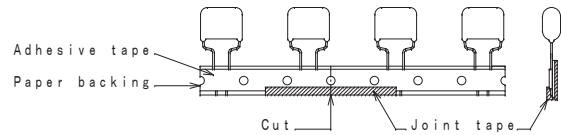
Ⓜ 103 K  
Q-E 1000V  
125V~  ← date code

DESIGN	M. MEKADA
CHECKED	T. KATO
APPROVAL	T. KATO
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)	

Film Capacitor Business Unit  
Device Solutions Business Division  
Panasonic Industry Co., Ltd.

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 "P<sub>0</sub>" 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.

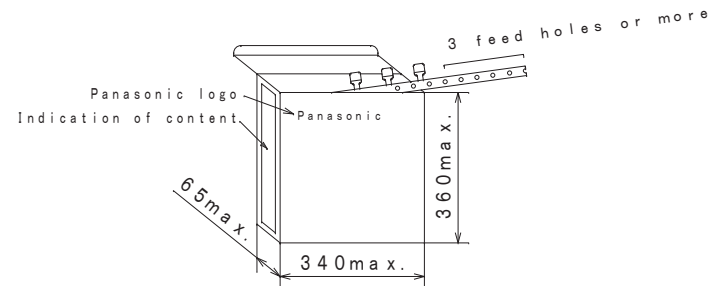
Note 4. The tape adhesion is more than 3.92N (400gf) / 25mm.

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 $\mu$ F	500
0.027 ~ 0.039 $\mu$ F	
0.018 ~ 0.022 $\mu$ F	400
0.047 ~ 0.068 $\mu$ F	
0.082 ~ 0.1 $\mu$ 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)

Film Capacitor Business Unit  
Device Solutions Business Division  
Panasonic Industry Co., Ltd.