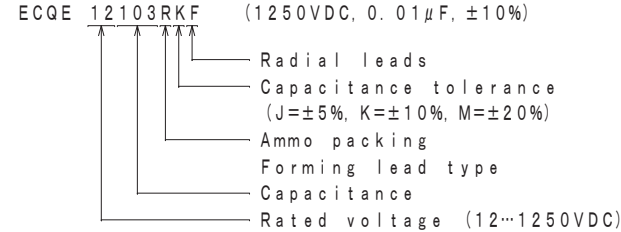


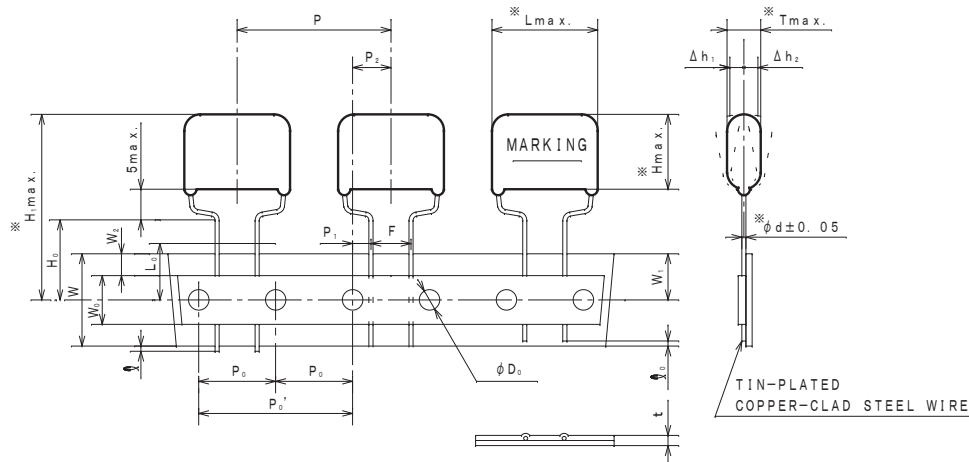
ITEM CODE	CAP. (μF)	DIMENSIONS				
		*L	*T	*H	*d	*H <sub>1</sub>
ECQE12332R ( ) F	0.0033	15.5	6.0	11.5	0.6	33.5
" 12392R ( ) F	0.0039	"	6.5	12.0	"	34.0
" 12472R ( ) F	0.0047	"	7.0	12.5	"	34.5
" 12562R ( ) F	0.0056	"	7.5	13.0	"	35.0
" 12682R ( ) F	0.0068	"	"	15.0	"	37.0
" 12822R ( ) F	0.0082	21.0	5.0	12.0	"	34.0
" 12103R ( ) F	0.01	"	"	12.5	"	34.5
" 12123R ( ) F	0.012	"	5.5	13.0	"	35.0
" 12153R ( ) F	0.015	"	6.0	13.5	"	35.5
" 12183R ( ) F	0.018	"	6.5	14.5	0.8	36.5
" 12223R ( ) F	0.022	"	7.0	15.0	"	37.0

TOL. SYMBOL (J or K or M)

ITEM CODE NUMBER STRUCTURE



ALTERATION		
ISSUE	DESCRIPTION	DATE
SPECIFICATIONS No.		



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	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), ±20% (M) at 1kHz  
 Rated voltage : 1250VDC/125VAC (Derating of rated voltage by 1.25%/°C at more than 85°C)  
 Withstand voltage (terminal-terminal) : 1250VDCx175% 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)

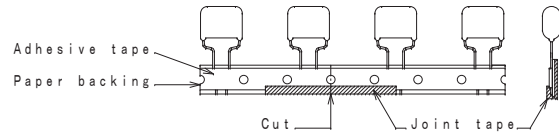
MARKING EXAMPLE

Ⓜ 103 M  
 Q-E 1250V  
 125V~   ← date code

DESIGN	M. MEKADA
CHECKED	T. KATO
APPROVAL	T. KATO
ESTABLISHMENT	Nov. 1, 2022
TYPE NAME	
ECQE12***R ( ) F	
NAME Metallized Polyester Film Capacitor	
DRAWING NAME	
PRODUCT DRAWING	
DRAWING No.	
M008M-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.

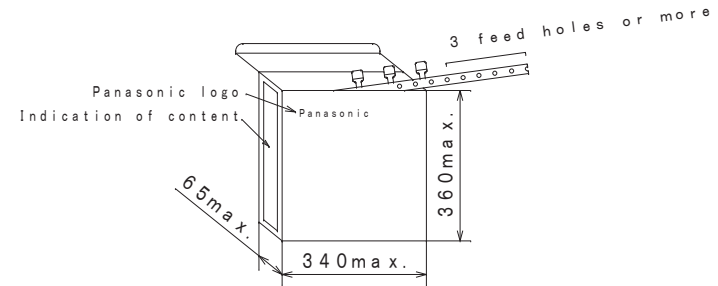


A tape sliding shall not exceed in an allowance of "P<sub>0</sub>" dimension.  
 A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- 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
0.0033~0.0047 $\mu$ F	500
0.0082~0.022 $\mu$ F	400
0.0056, 0.0068 $\mu$ F	400

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	ECQE12***R () F
DRAWING No.	M008M-J-E (2/2)

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