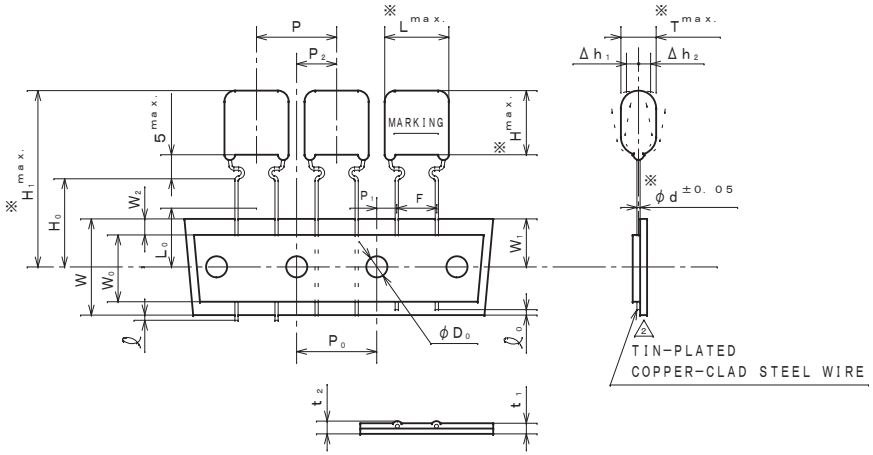
THIRD ANGLE PROJECTION

ITEM CODE	RATED VOLTAGE	CAP. (μF)	DIMENSIONS ※L	※T	※H	※d	※H1
ECQE1A103R () F	125VAC	0.01	10.5	4.5	7.5	0.6	29.5
〃 1A123R () F	〃	0.012	〃	4.4	〃	〃	〃
〃 1A153R () F	〃	0.015	〃	〃	〃	〃	〃
〃 1A183R () F	〃	0.018	〃	〃	〃	〃	〃
〃 1A223R () F	〃	0.022	〃	〃	〃	〃	〃
〃 1A273R () F	〃	0.027	〃	〃	〃	〃	〃
〃 1A333R () F	〃	0.033	〃	4.5	7.8	〃	29.8
〃 1A393R () F	〃	0.039	〃	〃	〃	〃	〃
〃 1A473R () F	〃	0.047	〃	5.5	8.0	〃	30.0
〃 1A563R () F	〃	0.056	〃	5.9	8.5	〃	30.5
〃 1A683R () F	〃	0.068	〃	6.3	9.4	〃	31.4
〃 1A823R () F	〃	0.082	〃	6.5	9.8	〃	31.8
〃 1A104R () F	〃	0.1	〃	〃	11.8	〃	33.8
〃 1A124R () F	〃	0.12	12.5	5.9	11.5	〃	33.5
〃 1A154R () F	〃	0.15	〃	6.5	12.0	〃	34.0
〃 1A184R () F	〃	0.18	〃	7.0	12.5	〃	34.5
〃 1A224R () F	〃	0.22	〃	7.5	13.4	〃	35.4

└ TOL. SYMBOL (J or K or M)



ITEM CODE NUMBER STRUCTURE

ECQE 1A103RKF (125VAC, 0.01μF, ±10%)

- Radial leads
- Capacitance tolerance (J=±5%, K=±10%, M=±20%)
- Ammo packing
- Forming lead type
- Capacitance
- Rated voltage (1A…125VAC)

ALTERATION		
ISSUE	DESCRIPTION	DATE
4	Company name changed	Apr. 1 2005
5	Company name changed	Apr. 1 2006
6	Company name changed	Apr. 1 2008
7	Change: category temperature range (−40℃~+85℃→−40℃~+105℃)	Dec. 21 2010
8	Company name changed	Apr. 1 2012
9	Company name changed	Apr. 1 2013
10	Company name changed	Apr. 1 2015
11	Company name changed	Apr. 1 2022

SPECIFICATIONS No.
TEA7071H

SYMBOL	ITEM	DIMENSION	REMARKS
P	Pitch of component	15.0±1.0	Tilt of component and curvature of leads shall be included.
P0	Feed hole pitch	15.0±0.2	
P1	Feed hole center to lead	3.75±0.5	
P2	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	$7.5^{+0.8}_{-0.2}$	
Δh1, 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	
W0	Adhesive tape width	9.5min.	The hold down tape shall not protrude beyond the carrier tape.
W1	Hole position	9.0±0.5	
W2	Hold-down tape position	0~3.0	
H0	Lead-wire clinch height	$16.0^{+1.0}_{-0}$	
ℓ	Lead-wire protrusion	0max.	
ℓ0	Lead-wire depression	7.0max.	
φD0	Feed hole diameter	4.0±0.2	
t1	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t2	Total thickness	1.5max.	
L0	Length of snipped 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.

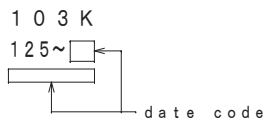
MARKING

Marking comprises capacitance, capacitance tolerance, rated voltage and date code.

PROPERTIES

Capacitance	:See table	at 1kHz
Capacitance tolerance	:±5%(J), ±10%(K), ±20%(M)	at 1kHz
Rated voltage	:125VAC	
Withstand voltage (terminal-terminal)	:125VAC×230% for 60s	
(terminal-enclosure)	:1500VAC for 60s	
Insulation resistance	:≧2000MΩ at 500VDC, 20℃ for 60s	
Dissipation factor	:≦1.0% at 1kHz, 20℃	
Category temperature range	: 7 From −40℃ to +105℃	
(including temperature rise on unit surface)		

MARKING EXAMPLE



DO NOT SCALE DRAWING REVISIONS INDICATED BY Δ ALL DIMENSIONS ARE IN MILLIMETERS

DESIGN	M.MEKADA
CHECK	H.TOMITA
APPROVAL	T.KATO
ESTABLISHMENT	Aug. 2.1996
TYPE NAME	ECQE1A***R () F
NAME	Metallized Polyester Film Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	CT-H-693E (1/2)

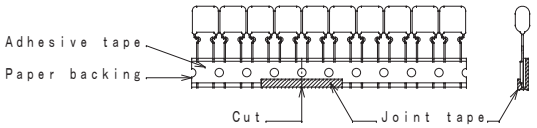
REFERENCE

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

THIRD ANGLE PROJECTION

Note 1. No more than 3 consecutive missing is permitted.

Note 2. A tape conjunction and a tape discrepancy specify as follows.



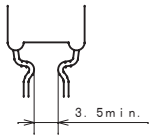
A tape sliding shall not exceed in an allowance of "P_0" dimension.
A joint tape put on the back side of paper backing, and turn up the lower part to the front.

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.

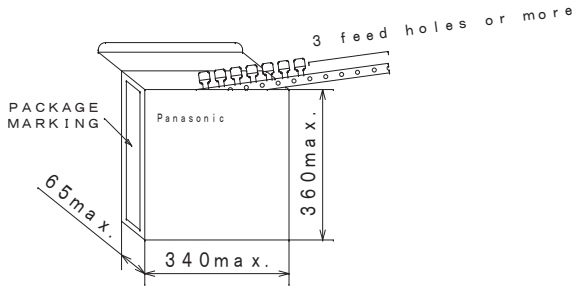
Note 6. The lead crimping shape shows as follows.



Packing specification

1. Case size

Ammo pack



2. Packing quantity

Capacitance range	Packing quantity
0.01~0.18μF	1000
0.22μF	500

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
ECQE1A***R() F

DRAWING No.
CT-H-693E (2/2)

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

DO NOT SCALE DRAWING REVISIONS INDICATED BY Δ ALL DIMENSIONS ARE IN MILLIMETERS

THIRD ANGLE PROJECTION

ITEM CODE	RATED VOLTAGE	CAP. (μF)	DIMENSIONS ※L	※T	※H	※d	※H₁
ECQE1A274R() F	125VAC	0.27	18.5	6.3	12.0	0.6	34.0
〃 1A334R() F	〃	0.33	〃	6.9	12.5	〃	34.5
〃 1A394R() F	〃	0.39	〃	7.4	13.0	〃	35.0
〃 1A474R() F	〃	0.47	〃	7.5	15.3	〃	37.3

TOL. SYMBOL (J or K or M)

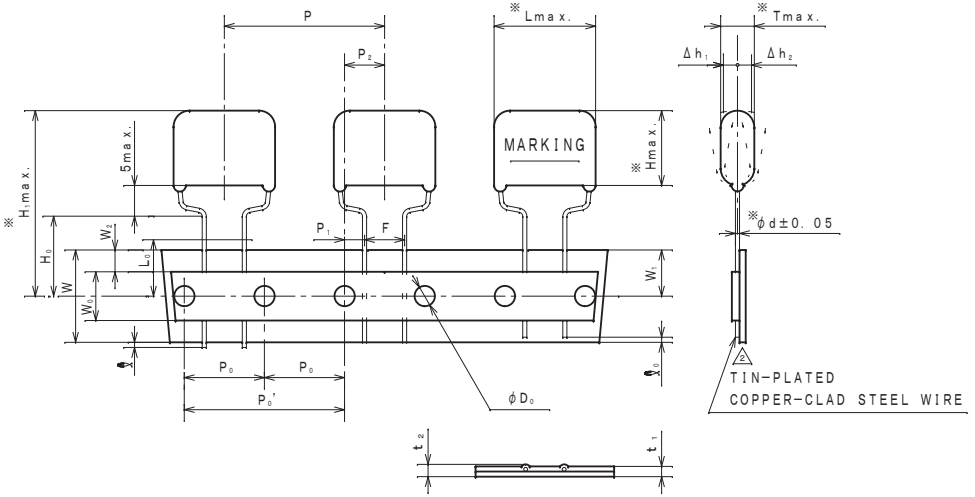
ALTERATION		
ISSUE	DESCRIPTION	DATE
4	Company name changed	Apr. 1 2005
5	Company name changed	Apr. 1 2006
6	Company name changed	Apr. 1 2008
7	Change: category temperature range (−40℃~+85℃→−40℃~+105℃)	Dec. 21 2010
8	Company name changed	Apr. 1 2012
9	Company name changed	Apr. 1 2013
10	Company name changed	Apr. 1 2015
11	Company name changed	Apr. 1 2022

SPECIFICATIONS No.
TEA7072H

ITEM CODE NUMBER STRUCTURE

ECQE 1A274RKF (125VAC, 0.27μF, ±10%)

- Radial leads
- Capacitance tolerance (J=±5%, K=±10%, M=±20%)
- Ammo packing
- Forming lead type
- Capacitance
- Rated voltage (1A…125VAC)



SYMBOL	ITEM	DIMENSION	REMARKS
P	Pitch of component	30.0±1.0	Tilt of component and curvature of leads shall be included.
P₀'	Feed hole pitch	30.0±0.2	
P₀	〃	15.0±0.2	
P₁	Feed hole center to lead	3.75±0.5	
P₂	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	$7.5^{+0.8}_{-0.2}$	
Δh₁,₂	Component alignment	0~2.0	Tilt of component due to curvature of leads shall be included.
W	Paper backing width	18.0±0.5	
W₀	Adhesive tape width	12.5min.	The hold down tape shall not protrude beyond the carrier tape.
W₁	Hole position	9.0±0.5	
W₂	Hold-down tape position	0~3.0	
H₀	Lead-wire clinch height	$16.0^{+1.0}_{-0}$	
	Lead-wire protrusion	0max.	
	Lead-wire depression	7.0max.	
φD₀	Feed hole diameter	4.0±0.2	
t₁	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t₂	Total thickness	1.5max.	
L₀	Length of snipped 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.

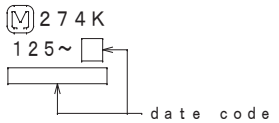
MARKING

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

PROPERTIES

Capacitance	:See table	at 1kHz
Capacitance tolerance	:±5%(J), ±10%(K), ±20%(M)	at 1kHz
Rated voltage	:125VAC	
Withstand voltage (terminal-terminal)	:125VAC×230% for 60s	
(terminal-enclosure)	:1500VAC for 60s	
Insulation resistance	:≧2000MΩ at 500VDC, 20℃ for 60s	
Dissipation factor	:≦1.0% at 1kHz, 20℃	
Category temperature range	: 7 From −40℃ to +105℃ (including temperature rise on unit surface)	

MARKING EXAMPLE



DESIGN	M. MEKADA
CHECK	H. ICHIKI
APPROVAL	T. KATO
ESTABLISHMENT	Mar. 5. 1992
TYPE NAME	ECQE1A***R() F
NAME	Metallized Polyester Film Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	CT-H-224E (1/2)

REFERENCE

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

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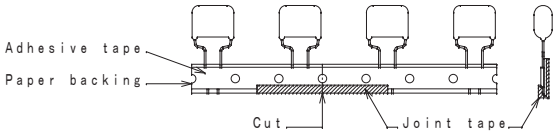
THIRD ANGLE PROJECTION

Note 1. No more than 2 consecutive missing is permitted.

Note 2. A tape conjunction and a tape discrepancy specify as follows.



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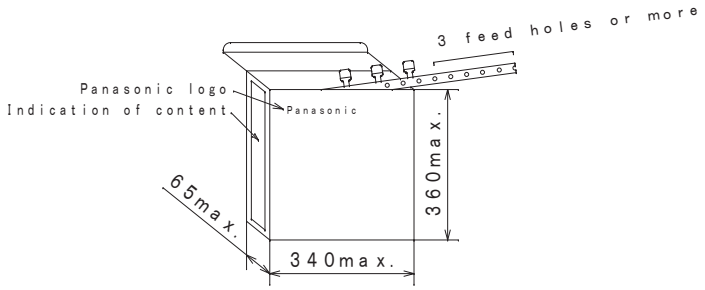
Note 4. The tape adhesion is more than 3.92N (400gf) / 25mm.

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
0.27, 0.33μF	500
0.39, 0.47μF	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
ECQE1A***R() F

DRAWING No.
CT-H-224E (2/2)

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

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