THIRD ANGLE PROJECTION

ITEM CODE	RATED VOLTAGE	CAP. (μF)	DIMENSIONS ※L	※T	※H	※d	※H_1
ECQE1A274 () T3	125VAC	0.27	19.0	6.3	12.0	0.6	33.5
〃 1A334 () T3	〃	0.33	〃	6.9	12.5	〃	34.0
〃 1A394 () T3	〃	0.39	〃	7.4	13.0	〃	34.5
〃 1A474 () T3	〃	0.47	〃	7.5	15.3	〃	36.8

TOL. SYMBOL (J or K or M)

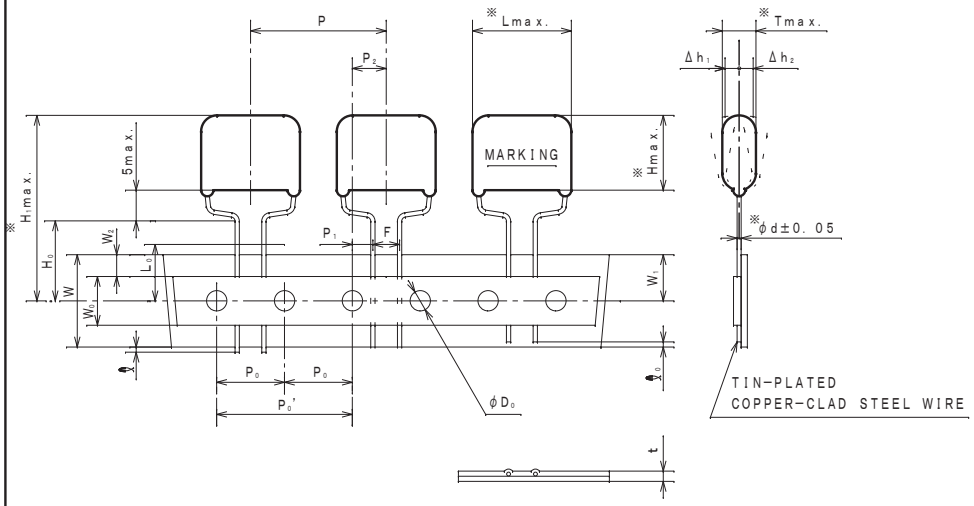
ALTERATION		
ISSUE	DESCRIPTION	DATE
1	Change:category temperature range (−40℃~+85℃→−40℃~+105℃)	Dec. 21 2010
2	Company name changed	Apr. 1 2012
3	Company name changed	Apr. 1 2013
4	Company name changed	Apr. 1 2015
5	Company name changed	Apr. 1 2022

SPECIFICATIONS No.

ITEM CODE NUMBER STRUCTURE

ECQE 1A274KT3 (125VAC, 0.27μF, ±10%)

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



SYMBOL	ITEM	DIMENSION	REMARKS
P	Pitch of component	25.4±1.0	Tilt of component and curvature of leads shall be included.
P_0'	Feed hole pitch	25.4±0.2	
P_0	〃	12.7±0.2	
P_1	Feed hole center to lead	3.85±0.5	
P_2	Hole center to comp. center	6.35±1.3	Tilt of component due to curvature of leads shall be included.
F	Lead-to-lead distance	$5.0^{+0.8}_{-0.2}$	
$\Delta h_{1,2}$	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±0.5	
δ	Lead-wire protrusion	0max.	
δ_0	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 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.

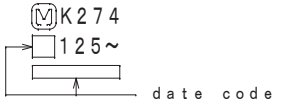
MARKING

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	: △1 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.MEKABA
CHECK	H.ICHIDA
APPROVAL	T.KATO
ESTABLISHMENT	Oct. 4.2010

REFERENCE

TYPE NAME
ECQE1A*** () T3

NAME Metallized Polyester Film Capacitor

DRAWING NAME
PRODUCT DRAWING

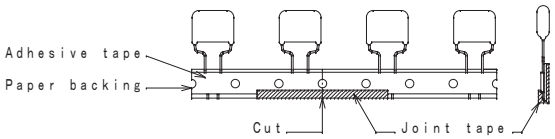
DRAWING No.
0040M-J-E (1/2)

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

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.



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. A tape trailer having at least 3 feed holes is required at the end of the tape.

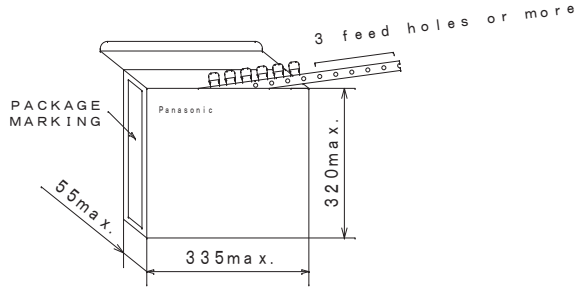
Note 4. Marking on components may not be the same side.

Note 5. The tape adhesion is more than 3.92N (400gf) / 25mm.

Packing specification

1. Case size

Ammo pack



2. Packing quantity

Capacitance range	Packing quantity
0.27μF	600
0.33~0.47μF	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***() T3
DRAWING No.	0040M-J-E (2/2)

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

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THIRD ANGLE PROJECTION

ITEM CODE	RATED VOLTAGE	CAP. (μF)	DIMENSIONS ※L	※T	※H	※d
ECQE1A103 () T6	125VAC	0.01	11.0	4.5	7.5	0.6
〃 1A123 () T6	〃	0.012	〃	4.4	〃	〃
〃 1A153 () T6	〃	0.015	〃	〃	〃	〃
〃 1A183 () T6	〃	0.018	〃	〃	〃	〃
〃 1A223 () T6	〃	0.022	〃	〃	〃	〃
〃 1A273 () T6	〃	0.027	〃	〃	〃	〃
〃 1A333 () T6	〃	0.033	〃	4.5	7.8	〃
〃 1A393 () T6	〃	0.039	〃	〃	〃	〃
〃 1A473 () T6	〃	0.047	〃	5.5	8.0	〃
〃 1A563 () T6	〃	0.056	〃	5.9	8.5	〃
〃 1A683 () T6	〃	0.068	〃	6.3	9.4	〃
〃 1A823 () T6	〃	0.082	〃	6.5	9.8	〃
〃 1A104 () T6	〃	0.1	〃	〃	11.8	〃

TOL. SYMBOL (J or K or M)

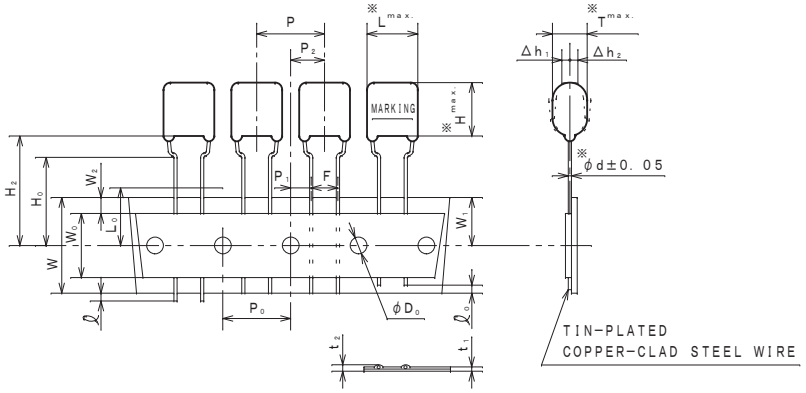
ITEM CODE NUMBER STRUCTURE

ECQE 1A103KT6 (125VAC, 0.01μF, ±10%)

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

ISSUE	DESCRIPTION	DATE
1	Company name changed	Oct. 1 2004
2	Company name changed	Apr. 1 2005
3	Company name changed	Apr. 1 2006
4	Company name changed	Apr. 1 2008
5	Change:category temperature range (−40℃~+85℃→−40℃~+105℃)	Dec. 21 2010
6	Company name changed	Apr. 1 2012
7	Company name changed	Apr. 1 2013
8	Company name changed	Apr. 1 2015
9	Company name changed	Apr. 1 2022

SPECIFICATIONS No.



SYMBOL	ITEM	DIMENSION	REMARKS
P	Pitch of component	12.7±1.0	Tilt of component and curvature of leads shall be included.
P_0	Feed hole pitch	12.7±0.2	
P_1	Feed hole center to lead	3.85±0.5	
P_2	Hole center to comp. center	6.35±1.3	Tilt of component due to curvature of leads shall be included.
F	Lead-to-lead distance	$5.0^{+0.8}_{-0.2}$	
$\Delta h_{1,2}$	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	9.5min.	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_2	Component height	22.0±0.75	
H_0	Lead-wire clinch height	16.0±0.5	
ℓ	Lead-wire protrusion	0max.	
ℓ_0	Lead-wire depression	7.0max.	
ϕD_0	Feed hole diameter	4.0±0.2	
t_1	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t_2	Total thickness	1.5max.	
L_0	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.

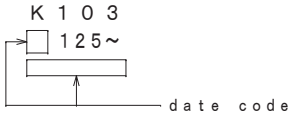
MARKING

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	: △5 From −40℃ to +105℃	
(including temperature rise on unit surface)		

MARKING EXAMPLE



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

DESIGN	M. MEKADA
CHECK	H. ICHIKI
APPROVAL	T. KATO
ESTABLISHMENT	Sep. 13. 2002
TYPE NAME	ECQE1A*** () T6
NAME	Metallized Polyester Film Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	2126M-J-E (1/2)

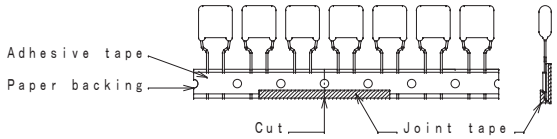
REFERENCE

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.



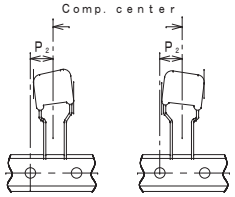
A tape sliding shall not exceed in an allowance of "P_0" dimension.
A joint tape put on the back side of paper backing, and turn up the lower part to the front.

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.

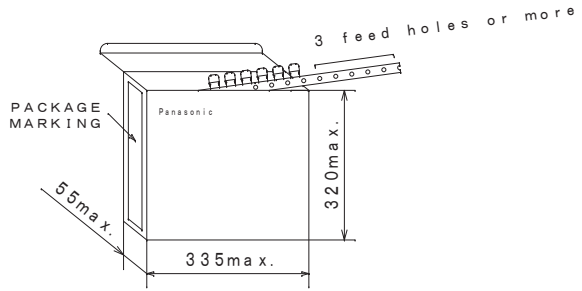
Note 6. 1) The P_1 and P_2 dimension shall be measured as shown in the figure after the adhesive tape placing upward.
(measuring from the center of sprocket hole to the right.)
2) The P_2 dimension shall be measured between center of a vertical projection plane for tape plane and center of sprocket hole.



Packing specification

1. Case size

Ammo pack



2. Packing quantity

Capacitance range	Packing quantity
0.01~0.047μF	1500
0.056~0.1μF	1000

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***() T6
DRAWING No.	2126M-J-E (2/2)

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

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THIRD ANGLE PROJECTION

ITEM CODE	RATED VOLTAGE	CAP. (μF)	DIMENSIONS ※L	※T	※H	※d
ECQE1A124 () T6	125VAC	0.12	13.0	5.9	11.5	0.6
〃 1A154 () T6	〃	0.15	〃	6.5	12.0	〃
〃 1A184 () T6	〃	0.18	〃	7.0	12.5	〃
〃 1A224 () T6	〃	0.22	〃	7.5	13.4	〃

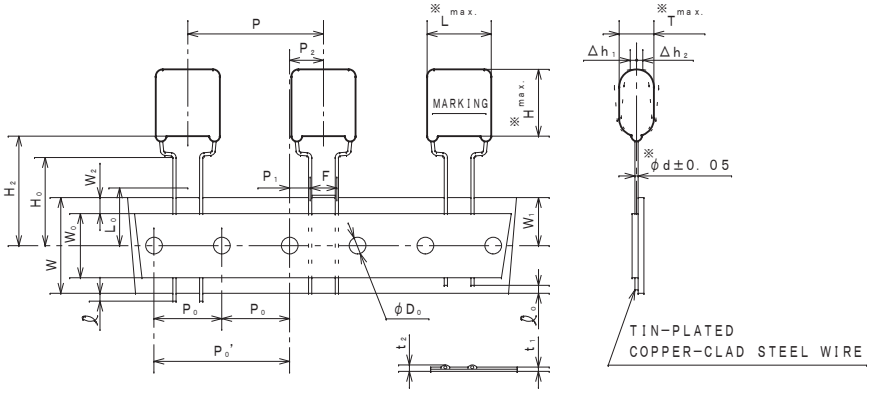
TOL. SYMBOL (J or K or M)

ITEM CODE NUMBER STRUCTURE

ECQE 1A124KT6 (125VAC, 0.12μF, ±10%)

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

ALTERATION		
ISSUE	DESCRIPTION	DATE
1	Company name changed	Oct. 1 2004
2	Company name changed	Apr. 1 2005
3	Company name changed	Apr. 1 2006
4	Company name changed	Apr. 1 2008
5	Change:category temperature range (−40℃~+85℃→−40℃~+105℃)	Dec. 21 2010
6	Company name changed	Apr. 1 2012
7	Company name changed	Apr. 1 2013
8	Company name changed	Apr. 1 2015
9	Company name changed	Apr. 1 2022
SPECIFICATIONS No.		



SYMBOL	ITEM	DIMENSION	REMARKS
P	Pitch of component	25.4±1.0	Tilt of component and curvature of leads shall be included.
P_0'	Feed hole pitch	25.4±0.2	
P_0	〃	12.7±0.2	
P_1	Feed hole center to lead	3.85±0.5	
P_2	Hole center to comp. center	6.35±1.3	Tilt of component due to curvature of leads shall be included.
F	Lead-to-lead distance	$5.0^{+0.8}_{-0.2}$	
$\Delta h_{1,2}$	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_2	Component height	22.0±0.75	
H_0	Lead-wire clinch height	16.0±0.5	
ℓ	Lead-wire protrusion	0max.	
ℓ_0	Lead-wire depression	7.0max.	
ϕD_0	Feed hole diameter	4.0±0.2	
t_1	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t_2	Total thickness	1.5max.	
L_0	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.

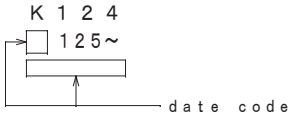
MARKING

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	:△5 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

REFERENCE

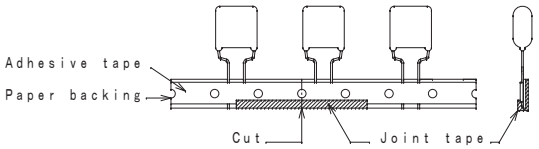
DESIGN	M.MEKADA
CHECKED	H.TOMITA
APPROVAL	T.KATO
ESTABLISHMENT	Sep. 13. 2002
TYPE NAME	ECQE1A***() T6
NAME	Metallized Polyester Film Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	2127M-J-E (1/2)

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

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.



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.

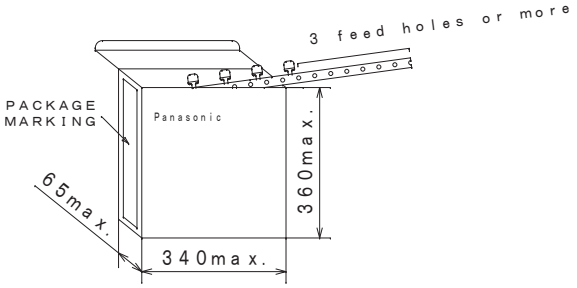
Note 4. The tape adhesion is more than 3.92N(400gf)/25mm.

Note 5. A tape trailer having at least 3 feed holes is required at the end of the tape.

Packing specification

1. Case size

Ammo pack



2. Packing quantity

Capacitance range	Packing quantity
0.12~0.15μF	600
0.18~0.22μF	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***() T6
DRAWING No.	2127M-J-E (2/2)

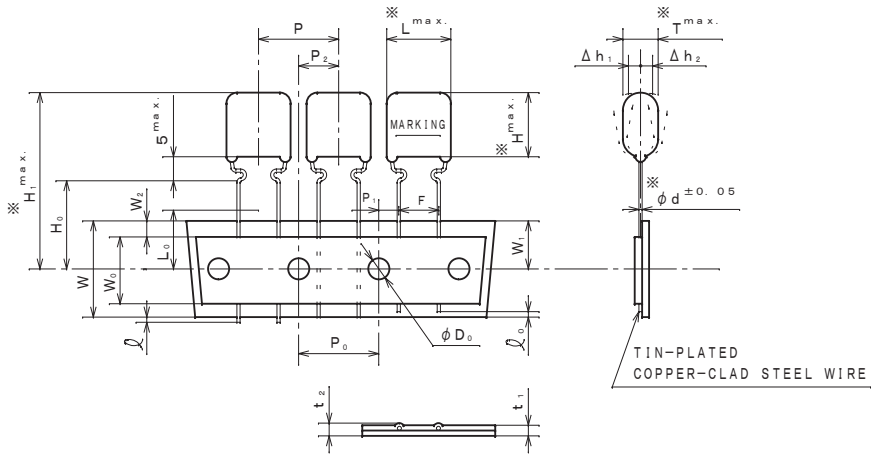
Film Capacitor Business Unit
Device Solutions Business Division
Panasonic Industry Co., Ltd.

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
ECQE1A103R () T	125VAC	0.01	11.0	4.5	7.5	0.6	29.5
〃 1A123R () T	〃	0.012	〃	4.4	〃	〃	〃
〃 1A153R () T	〃	0.015	〃	〃	〃	〃	〃
〃 1A183R () T	〃	0.018	〃	〃	〃	〃	〃
〃 1A223R () T	〃	0.022	〃	〃	〃	〃	〃
〃 1A273R () T	〃	0.027	〃	〃	〃	〃	〃
〃 1A333R () T	〃	0.033	〃	4.5	7.8	〃	29.8
〃 1A393R () T	〃	0.039	〃	〃	〃	〃	〃
〃 1A473R () T	〃	0.047	〃	5.5	8.0	〃	30.0
〃 1A563R () T	〃	0.056	〃	5.9	8.5	〃	30.5
〃 1A683R () T	〃	0.068	〃	6.3	9.4	〃	31.4
〃 1A823R () T	〃	0.082	〃	6.5	9.8	〃	31.8
〃 1A104R () T	〃	0.1	〃	〃	11.8	〃	33.8
〃 1A124R () T	〃	0.12	13.0	5.9	11.5	〃	33.5
〃 1A154R () T	〃	0.15	〃	6.5	12.0	〃	34.0
〃 1A184R () T	〃	0.18	〃	7.0	12.5	〃	34.5
〃 1A224R () T	〃	0.22	〃	7.5	13.4	〃	35.4

└ TOL. SYMBOL (J or K or M)



ITEM CODE NUMBER STRUCTURE

ECQE 1A 103 R K T (125VAC, 0.01μF, ±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	15.0±1.0	Tilt of component and curvature of leads shall be included.
P_0	Feed hole pitch	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	$7.5^{+0.8}_{-0.2}$	
$\Delta h_{1,2}$	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	9.5min.	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	$16.0^{+1.0}_{-0.5}$	
	Lead-wire protrusion	0max.	
ℓ_0	Lead-wire depression	7.0max.	
ϕD_0	Feed hole diameter	4.0±0.2	
t_1	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t_2	Total thickness	1.5max.	
L_0	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.

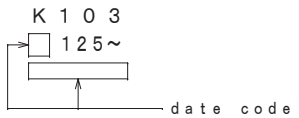
MARKING

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	:△1 From -40℃ to +105℃	
(including temperature rise on unit surface)		

MARKING EXAMPLE



ALTERATION

ISSUE	DESCRIPTION	DATE
△1	Change: category temperature range (-40℃~+85℃→-40℃~+105℃)	Dec. 21 2010
△2	Company name changed	Apr. 1 2012
△3	Company name changed	Apr. 1 2013
△4	Company name changed	Apr. 1 2015
△5	Company name changed	Apr. 1 2022

SPECIFICATIONS No.

DESIGN	M.MEKADA
CHECKED	H.TOMITA
APPROVAL	T.KATO
ESTABLISHMENT	Sep. 24. 2008

REFERENCE

TYPE NAME
ECQE1A***R () T

NAME Metallized Polyester Film Capacitor

DRAWING NAME
PRODUCT DRAWING

DRAWING No.
8067M-J-E (1/2)

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

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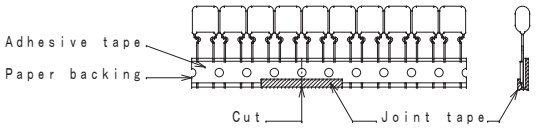
THIRD ANGLE PROJECTION

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

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



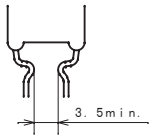
A tape sliding shall not exceed in an allowance of "P_0" dimension.
A joint tape put on the back side of paper backing, and turn up the lower part to the front.

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.

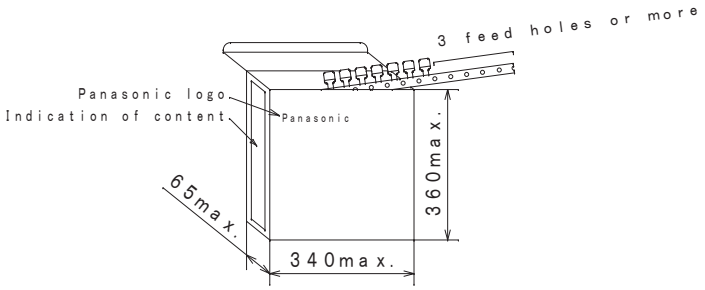
Note 6. The lead crimping shape shows as follows.



Packing specification

1. Case size

Ammo pack



2. Packing quantity

Capacitance range	Packing quantity	Capacitance range	Packing quantity
0.01~0.039μF	1700	0.082~0.12μF	1100
0.047μF	1400	0.15μF	1000
0.056μF	1300	0.18μF	900
0.068μF	1200	0.22μF	800

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()T

DRAWING No.
8067M-J-E (2/2)

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

THIRD ANGLE PROJECTION

ITEM CODE	RATED VOLTAGE	CAP. (μF)	DIMENSIONS ※L	※T	※H	※d	※H₁
ECQE1A274R () T	125VAC	0.27	19.0	6.3	12.0	0.6	34.0
〃 1A334R () T	〃	0.33	〃	6.9	12.5	〃	34.5
〃 1A394R () T	〃	0.39	〃	7.4	13.0	〃	35.0
〃 1A474R () T	〃	0.47	〃	7.5	15.3	〃	37.3

TOL. SYMBOL (J or K or M)

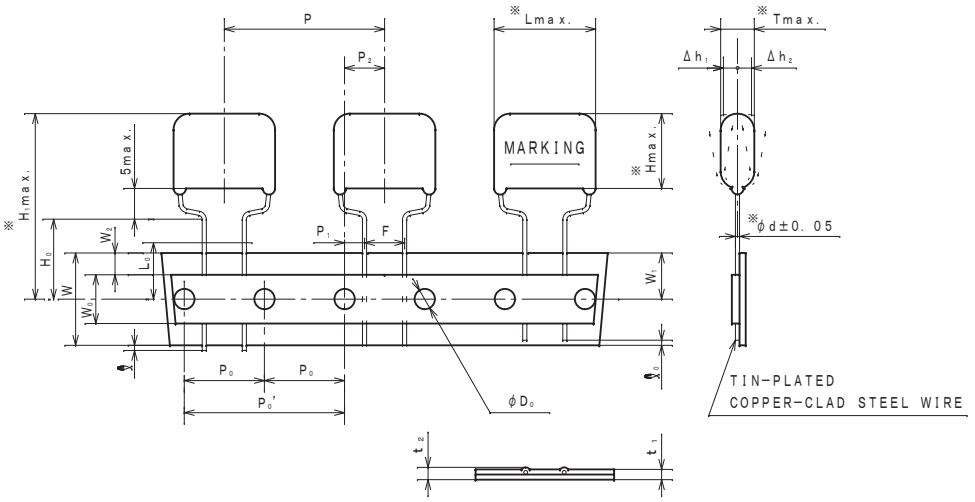
ALTERATION		
ISSUE	DESCRIPTION	DATE
1	Change: category temperature range (−40℃~+85℃→−40℃~+105℃)	Dec. 21 2010
2	Company name changed	Apr. 1 2012
3	Company name changed	Apr. 1 2013
4	Company name changed	Apr. 1 2015
5	Company name changed	Apr. 1 2022

SPECIFICATIONS No.

ITEM CODE NUMBER STRUCTURE

ECQE 1A274RKT (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.

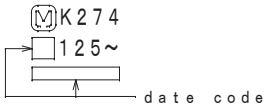
MARKING

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	:△1 From −40℃ to +105℃ (including temperature rise on unit surface)	

MARKING EXAMPLE



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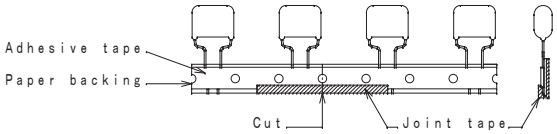
DESIGN	M. MEKADA
CHECK	H. ICHIDA
APPROVAL	T. KATO
ESTABLISHMENT	Sep. 24. 2008
TYPE NAME	ECQE1A***R () T
NAME	Metallized Polyester Film Capacitor
DRAWING NAME	PRODUCT DRAWING
DRAWING No.	8068M-J-E (1/2)

REFERENCE

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.



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A joint tape put on the back side of paper backing, and turn up the lower part to the front.

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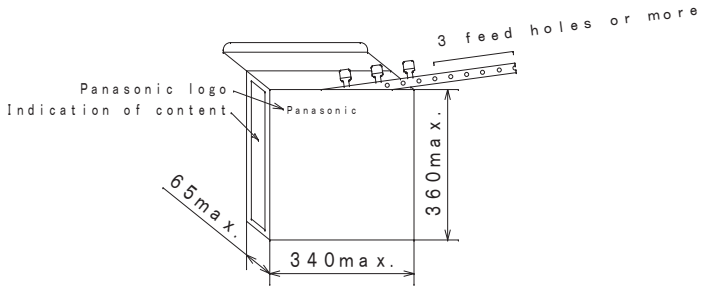
Note 4. The tape adhesion is more than 3.92N(400gf)/25mm.

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
0.27μF	500
0.33~0.47μF	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()T
DRAWING No.	8068M-J-E (2/2)

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