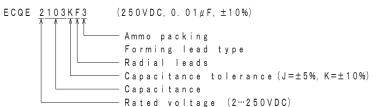
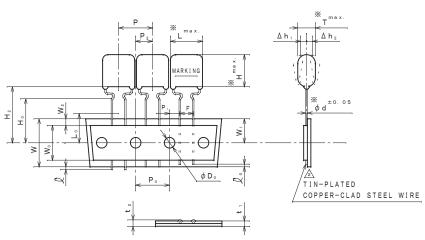
	RATED	CAP.		DIMEN	SIONS		
ITEM CODE	VOLTAGE	(μF)	* L	Ж Т	ж н	ж d	
ECQE2103 () F3	250VDC	0. 01	10.3	4. 3	7. 4	0.6	
" 2123 () F3	"	0.012	"	4. 4	7. 5	"	
" 2153 () F3	"	0.015	"	"	"	"	
" 2183 () F3	"	0.018	"	"	"	"	
" 2223 () F3	"	0.022	"	"	"	"	
" 2273 () F3	"	0.027	"	"	"	"	
" 2333 () F3	"	0.033	"	4. 5	"	"	
" 2393 () F3	"	0.039	"	"	"	"	
" 2473 () F3	"	0.047	"	"	"	"	
" 2563 () F3	"	0.056	"	4. 8	7. 9	"	
" 2683 () F3	"	0.068	"	4. 5	7. 5	"	
" 2823 () F3	"	0.082	"	4. 9	8. 0	"	
" 2104 () F3	"	0. 1	"	5. 8	8. 4	"	
" 2124 () F3	"	0. 12	"	6. 0	9. 0	"	
" 2154 () F3	"	0. 15	"	"	10.8	"	
" 2184 () F3	"	0. 18	12.0	5. 0	10.3	"	
" 2224 () F3	"	0. 22	"	5. 5	10.5	"	
" 2274 () F3	"	0. 27	"	6. 0	11. 5	"	
↑ TOL. SYMBOL (J or K)							

ITEM CODE NUMBER STRUCTURE



_			
		ALTERATION	
	ISSUE	DESCRIPTION	DATE
	/3\	Company name changed	0 c t . 1
			2004
	/ 4\	Company name changed	Apr. 1
			2005
	5	Company name changed	Apr. 1
			2006
	6	Correction:category	Jan. 22
		temperature range (-40°C~+85°C→-40°C~+105°C)	2008
		Addition:rated voltage	
		(Delating of rated voltage by	
		1. 2.5% ∕°C at more than 8.5°C)	
	\wedge	Company name changed	Apr. 1
		Error correction	2008
	/8\	Company name changed	Apr. 1
	<u> </u>		2012
	<u></u>	Company name changed	Apr. 1
	\sqrt{a}		2013
	Δ	Company name changed	Apr. 1
	Z10		2015
	Λ	Company name changed	Apr. 1
	<u> </u>		2022
	SPECI	FICATIONS No.	
		T E 7 2 0 2 8 Y	



SYMBOL	ITEM	DIMENSION	REMARKS
Р	Pitch of component	12.7±1.0	Tilt of component and curvature of leads shall be included.
P.	Feed hole pitch	12.7±0.2	
Ρ,	Feed hole center to lead	3.85±0.5	
P ₂	Hole center to comp. center		Tilt of component due to curvature of leads shall be included.
F	Lead-to-lead distance	5. 0 + 0 : 8	
∆ 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	
W₀	Adhesive tape width	9.5min.	The hold down tape shall not protrude beyond the carrier tape.
W,	Hole position	9.0±0.5	
W ₂	Hold-down tape position	0~3.0	
H ₂	Component height	22.0±0.75	
H.	Lead-wire clinch height	16.0±0.5	
Ŷ	Lead-wire protrusion	0 m a x .	
ŷ o	Lead-wire depression	7. 0 m a x .	
φD。	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. 5 m a x .	
L.	Length of snipped lead	11. 0 m a x .	

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 : ±5% (J), ±10% (K) at 1kHz Capacitance tolerance

:250VDC $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ (Derating of rated voltage by 1.25%/ $\bigcirc \bigcirc$ at more than 85 $\bigcirc \bigcirc$) Rated voltage

Withstand voltage : 250 V D C × 150% for 60 s

:≧9000MΩ at 100VDC. 20°C for 60s Insulation resistance

Dissipation factor :≦1.0% at 1kHz, 20°C Category temperature range : ∕6 From −40°C to +105°C

(including temperature rise on unit surface)

DO NOT SCALE DRAWING REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

MARKING EXAMPLE

date code

3 9 3 K

250



ESTABLISHMENT Apr. 27. 1987

TYPE NAME

ECQE2***() F3

NAME Metallized Polyester

Film Capacitor

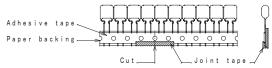
DRAWING NAME

PRODUCT DRAWING

DRAWING No.

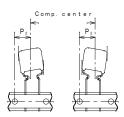
CT-H-C013 (1/2)

- 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 "Po" 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
- 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.

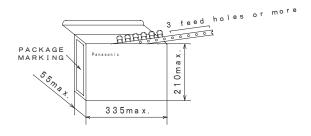


Note 7. The lead crimping shape shows as follows.



Packing specification

1. Case size Ammo pack



2. Packing quantity

Capacitance	Packing
range	quantity
0. 01~0. 082μF	1000
0. 1 ~0. 27 μF	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

TYPE NAME

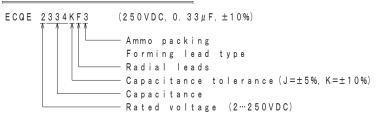
ECQE2***() F3

DRAWING No.

CT-H-C013 (2/2)

ITEM CODE	RATED	CAP.	DIMENSIONS				
TIEW CODE	VOLTAGE	(μF)	ж ∟	ж т	ж н	ж d	ЖН₁
ECQE2334 () F3	250VDC	0.33	12.0	6. 5	12.0	0.6	33.5
TOL. SYMBOL (J or K)							

ITEM CODE NUMBER STRUCTURE



	DECODIBLION	D 4 T F
ISSUE		DATE
2	Modification	Jun. 20 2002
<u>3</u>	Company name changed	0 c t . 1
4	Company name changed	Apr. 1
5	Company name changed	Apr. 1
6	Correction: category temperature range $(-4.0^{\circ}\text{C} \times +8.5^{\circ}\text{C} -4.0^{\circ}\text{C} \times +10.5^{\circ}\text{C})$ Addition: rated voltage (Delating of rated voltage by $1.25\%/\overline{\text{C}}$ at more than 8.5°C)	Jan. 22 2008
<u>^</u>	Company name changed Error correction	Apr. 1
8	Company name changed	Apr. 1
9	Company name changed	Apr. 1 2013
<u>/18</u>	Company name changed	Apr. 1
<u></u>	Company name changed	Apr. 1

TE8Y160H

** H H H H B A X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	P & MARKING & T	T T Max. Ah, T Ah2 Ah2 ** ** ** ** Ah2 ** ** ** ** ** ** ** ** **
	**************************************	COPPER-GLAD STEEL WIRE

SYMBOL	ITEM	DIMENSION	REMARKS
P	Pitch of component	15.0±1.0	Tilt of component and curvature of leads shall be included.
P.	Feed hole pitch	15.0±0.2	
Ρ,	Feed hole center to lead	5.0±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	5. 0 + 0 : 8	
∆ 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	
W₀	Adhesive tape width	9.5min.	The hold down tape shall not protrude beyond the carrier tape.
W,	Hole position	9.0±0.5	
W ₂	Hold-down tape position	0~3.0	
H.	Lead-wire clinch height	16.0±0.5	
Ŷ	Lead-wire protrusion	0 m a x .	
ý o	Lead-wire depression	7. 0 m a x .	
φD。	Feed hole diameter	4.0±0.2	
t i	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t 2	Total thickness	1.5 max.	
Lo	Length of snipped lead	11. Omax.	

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 : ±5% (J), ±10% (K) at 1kHz Capacitance tolerance

Rated voltage :250VDC $\sqrt{6}\sqrt{\gamma}$ (Derating of rated voltage by 1.25%/ $^{\circ}$ C at more than 85 $^{\circ}$ C)

Withstand voltage :250VDC×150% for 60s

Insulation resistance :≧9000MΩ at 100VDC. 20°C for 60s

Dissipation factor :≦1.0% at 1kHz, 20°C gory temperature range : ♠ From -40°C to +105°C (including temperature rise on unit surface) Category temperature range

DO NOT SCALE DRAWING REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS

MARKING EXAMPLE

date code

3 3 4 K

250 -

ESTABLISHMENT Jan. 5. 1994 TYPE NAME

ECQE2334 () F3 NAME Metallized Polyester

Film Capacitor

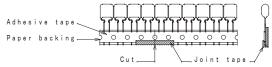
DRAWING NAME

PRODUCT DRAWING

DRAWING No.

CT-H-3B4E (1/2)

- Note 1. No more than 3 consecutive missing is permitted.
- Note 2. A tape conjunction and a tape discrepancy specify as follows.

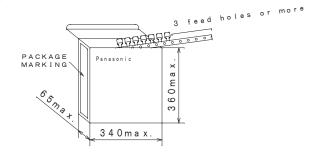


A tape sliding shall not exceed in an allowance of "Po" dimension. A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- 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	Packing
range	quantity
0. 33μF	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.

TYPE NAME

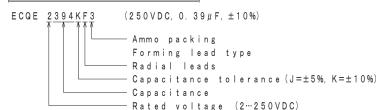
ECQE2334 () F3

DRAWING No.

CT-H-3B4E (2/2)

ITEM CODE	RATED	CAP.		DIM	MENSI	ONS	
TIEM CODE	VOLTAGE	(μF)	ж L	ж т	* н	ж d	ж н,
ECQE2394 () F3	250VDC	0.39	18.5	4. 9	12.0	0.6	33.5
" 2474 () F3	"	0.47	"	5. 3	12.5	"	34.0
" 2564 () F3	"	0.56	"	5. 5	13.0	"	34.5
" 2684 () F3	"	0.68	"	6. 0	13.5	0.8	35.0
" 2824 () F3	"	0.82	"	6. 5	14.5	"	36.0
" 2105 () F3	"	1. 0	"	7. 4	15.0	"	36.5
" 2125 () F3	"	1. 2	"	8. 0	15. 9	"	37.4
" 2155 () F3	"	1. 5	"	9. 0	16.8	"	38.3

ITEM CODE NUMBER STRUCTURE



	ALTERATION						
ISSUE	DESCRIPTION	DATE					
4	Company name changed	Apr. 1 2005					
<u>\$</u>	Company name changed	Apr. 1 2006					
<u>6</u>	Correction: category temperature range $(-4.0^\circ\text{c}+8.5^\circ\text{c}-4.0^\circ\text{c}+10.5^\circ\text{c})$ Addition: rated voltage (Delating of rated voltage by 1.25%/°C at more than 8.5°c)	Jan. 22 2008					
\triangle	Company name changed Error correction	Apr. 1 2008					
8	Company name changed	Apr. 1 2012					
<u>_</u>	Company name changed	Apr. 1 2013					
<u>/10</u>	Company name changed	Apr. 1 2015					
<u></u>	Company name changed	Apr. 1 2022					
SPECI	FICATIONS No.						
T E 8 8 1 1 9 H							

** H H H H H H H H H H H H H H H H H H	P. P	∆h, × e E E T W	** Tmax. Ah: ** ** ** ** ** ** ** ** **	STEEL	WIRE
T.	1	 +			

SYMBOL	ITEM	DIMENSION	REMARKS
Р	Pitch of component	25.4±1.0	Tilt of component and curvature of leads shall be included.
P _o	Feed hole pitch	12.7±0.2	
P _o '	II .	25.4±0.2	
Ρ,	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	
∆ 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	
W₀	Adhesive tape width	12.5min.	The hold down tape shall not protrude beyond the carrier tape.
W,	Hole position	9. 0±0. 5	
W ₂	Hold-down tape position	0~3.0	
H.	Lead-wire clinch height	16.0±0.5	
ý	Lead-wire protrusion	0 m a x .	
Ý °	Lead-wire depression	7. 0 m a x .	
φ D.	Feed hole diameter	4. 0 ± 0. 2	
t	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
Lo	Length of snipped lead	11. 0 max.	

250

date code

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) at 1kHz :250VDC $^{+}$ (Derating of rated voltage by 1.25%/ $^{\circ}$ C at more than 85 $^{\circ}$ C) Rated voltage

Withstand voltage : 250 V D C × 150% for 60s

 $: \ge 3000 \text{M}\Omega \cdot \mu \text{ F}$ at 100 VDC, $20 ^{\circ}\text{C}$ for 60 sInsulation resistance

Dissipation factor :≦1.0% at 1kHz, 20°C : ∕6 From −40°C to +105°C Category temperature range

(including temperature rise on unit surface)

DO NOT SCALE DRAWING

REVISIONS INDICATED BY Δ

ALL DIMENSIONS ARE IN MILLIMETERS



ECQE2***() F3

NAME Metallized Polyester Film Capacitor

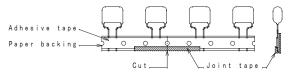
DRAWING NAME

PRODUCT DRAWING

DRAWING No.

CT-H-3B6E (1/2)

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

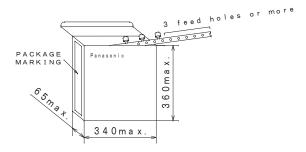


A tape sliding shall not exceed in an allowance of "Po" dimension. A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- 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	Packing
range	quantity
0. 39~1. 2μF	500
1. 5 μ 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.

TYPE NAME

ECQE2***() F3

DRAWING No.

CT-H-3B6E (2/2)