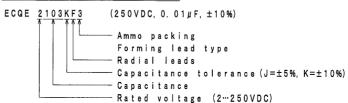
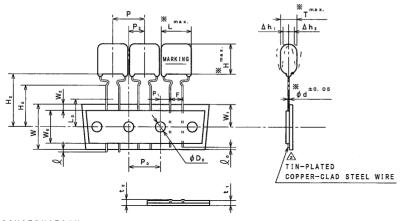
ITEM CODE	RATED	CAP.		DIMEN	SIONS	
TIEW CODE	VOLTAGE	(μF)	% L	Ж Т	жн	Ж Ч
ECQE2103 () F3	250VDC	0.01	10.3	4. 3	7. 4	0.6
" 2123 () F3	"	0.012	"	4. 4	7. 5	"
" 2153 () F3	"	0.015	"	11	"	"
" 2183 () F3	"	0.018	"	"	"	11
" 2223 () F3	"	0.022	"	n	"	11
" 2273 () F3	"	0.027	"	"	"	11
" 2333 () F3	"	0.033	"	4. 5	"	11
" 2393 () F3	"	0.039	"	"	"	"
" 2473 () F3	"	0.047	"	Н	"	"
" 2563 () F3	"	0.056	"	4. 8	7. 9	"
" 2683 () F3	11	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	11	0. 27	"	6. 0	11.5	"

ITEM CODE NUMBER STRUCTURE



	ALTERATION					
ISSUE	DESCRIPTION	DATE				
2	Modification	Jun. 20 2002				
3	Company name changed	0 c t . 1				
4	Company name changed	Apr. 1 2005				
<u>\$</u>	Company name changed	Apr. 1 2006				
<u> </u>	Correction: category temperature range (~40℃~+85℃~+40℃~+105℃) Addition: rated voltage (Delating of rated voltage by 1.25%/℃ at more than 85℃)	Jan. 22 2008				
A	Company name changed Error correction	Apr. 1 2008				
A	Company name changed	Apr. 1 2012				
<u>(a)</u>	Company name changed	Apr. 1 2013				
12	Company name changed	Apr. 1 2015				
SPECI	FICATIONS No.					
	T E 7 2 0 2 8 Y					



SYMBOL	I T E M	DIMENSION	REMARKS
Р	Pitch of component	12.7±1.0	Tilt of component and curvature of leads shall be included.
₽.	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	
Δh _{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 _o	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	
Н,	Component height	22.0±0.75	
н.	Lead-wire clinch height	16.0±0.5	
9	Lead-wire protrusion	Omax.	
9 .	Lead-wire depression	7. 0 max.	
φD。	Feed hole diameter	4.0±0.2	
t,	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t,	Total thickness	1. 5 max.	
L.	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
Capacitance tolerance

:See table at 1kHz :±5%(J),±10%(K) at 1kHz

Capacitance tolerance :±5% (J), ±10% (K) at 1kHz
Rated voltage :250VDC ♠♠ (Derating of rated voltage by 1.25%/℃ at more than 85℃)

Withstand voltage :250VDC×150% for 60s Insulation resistance :≥9000MQ at 100VDC. 20℃ for 60s

Dissipation factor :≤1.0% at 1kHz, 20°C Category temperature range :√e From -40°C to +105°C

Category temperature range : A From -40% (including temperature rise on unit surface)

DO NOT SCALE DRAWING

REVISIONS INDICATED BY A

ALL DIMENSIONS ARE IN MILLIMETERS

MARKING EXAMPLE

3 9 3 K 250 — date code DESIEN The Made CHECKED APPROVAL Thata ESTABLISHMENT Apr. 27. 1987

TYPE NAME ECQE2***() F3

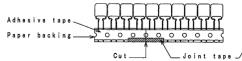
NAME Metallized Polyester Film Capacitor

DRAWING NAME PRODUCT DRAWING

DRAWING No.

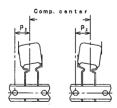
CT-H-C013 (1/2)

- 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 the tene
- Note 6. 1) The P₁ and P₂ dimension shall be measured as shown in the figure after the adhesive tape placing unward (measuring from the center of sprocket hole to the right.)
 - 2) The P₂ dimension shall be measured between center of a vertical projection plane for tape plane and center of sprocket hole.

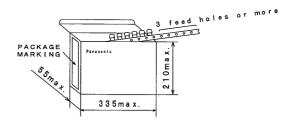


Note 7. The lead crimping shape shows as follows.



Packing specification

1. Case size Ammo pack

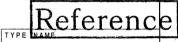


2. Packing quantity

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.



ECQE2***() F3

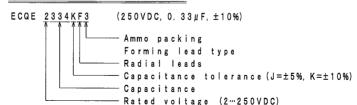
DRAWING No.

CT-H-C013 (2/2)

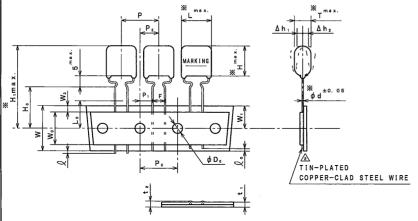


ITEM CODE	RATED	CAP.		DIM	MENSI	ONS	
11EW CODE	VOLTAGE	(μF)	*L	ж т	жн	Ж d	Жн₁
ECQE2334 () F3	250VDC	0.33	12. 0	6. 5	12.0	0.6	33.5
TOL. SYMBOL (J or K)							

ITEM CODE NUMBER STRUCTURE



	ALTERATION	
ISSUE	DESCRIPTION	DATE
2	Modification	Jun. 20 2002
3	Company name changed	0 c t. 1 2 0 0 4
A	Company name changed	Apr. 1 2005
<u>\(\)</u>	Company name changed	Apr. 1 2006
€	Correction: category temperature range (-40°c+85°c→40°c+105°c) Addition: rated voltage (Delating of rated voltage by 1.25%/℃ at more than 85°c)	Jan. 22 2008
À	Company name changed Error correction	Apr. 1 2008
8	Company name changed	Apr. 1 2012
<u> </u>	Company name changed	Apr. 1 2013
<u> 1</u> 2	Company name changed	Apr. 1 2015
SPECI	FICATIONS No.	
	TE8Y160H	



SYMBOL	ITEM	DIMENSION	REMARKS
Р	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	
Ρ,	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	,
Δh _{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.	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,	Hold-down tape position	0~3.0	
н.	Lead-wire clinch height	16.0±0.5	
Q	Lead-wire protrusion	Omax.	
Ŷ.	Lead-wire depression	7. Omax.	
φD,	Feed hole diameter	4.0±0.2	
t,	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
t,	Total thickness	1. 5 max.	· · · · · · · · · · · · · · · · · · ·
L.	Length of snipped lead	11. Omax.	

CONSTRUCTION

The capacitor is of non-inductive construction, wound with metallized polyester film

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 Capacitance tolerance Rated voltage :See table at 1kHz :±5%(J).±10%(K) at 1kHz

:±5%(J),±10%(K) at 1kHz :250VDC <u>6√3</u> (Derating of rated voltage by 1.25%/°C at more than 85°C)

Withstand voltage : 250VDC×150% for 60s

Insulation resistance :≧9000MQ at 100VDC, 20℃ for 60s Dissipation factor :≦1.0% at 1kHz, 20℃

Category temperature range : ♠ From -40°C to +105°C (including temperature rise on unit surface)

DO NOT SCALE DRAWING

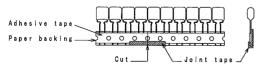
REVISIONS INDICATED BY A

ALL DIMENSIONS ARE IN MILLIMETERS

MARKING EXAMPLE

3 3 4 K 250 date code DESIGN / Machada
CHECKED R. Caski
APPROVAL Y. Tokata
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.

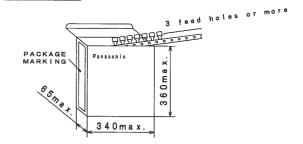


A tape sliding shall not exceed in an allowance of "P $_{\rm s}$ " dimension. A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- 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

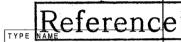


2. Packing quantity

Capacitance	Packing
range	quantity
0. 33μF	1000

3. Handling notes

- 1) One package must be packed one product only.
- 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.



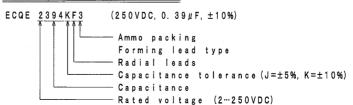
ECQE2334 () F3

DRAWING No.

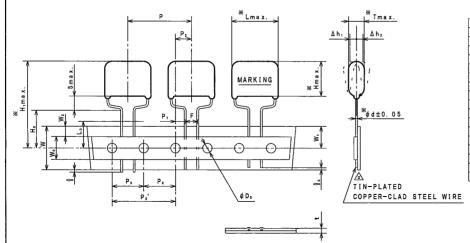
CT-H-3B4E (2/2)

ITEM CODE	RATED	CAP.		DII	MENSI	SNC	
TIEM CODE	VOLTAGE	(μF)	Ж ∟	ж т	ж н	ж d	ж н,
ECQE2394 () F3	250VDC	0.39	18.5	4. 9	12. 0	0.6	33.5
" 2474 () F3	"	0.47	11	5. 3	12.5	"	34.0
" 2564 () F3	"	0.56	"	5. 5	13.0	"	34.5
" 2684 () F3	11	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	11	36.5
" 2125 () F3	11	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				
<u>3</u>	Company name changed	Oct. 1 2004				
4	Company name changed	Apr. 1 2005				
<u>\$</u>	Company name changed	Apr. 1 2006				
<u>(f)</u>	Correction:category temperature range (-40°~+85°~→-40°~+105°C)	Jan. 22 2008				
	Addition:rated voltage (Delating of rated voltage by 1.25%/C at more than 85°C)					
A	Company name changed Error correction	Apr. 1 2008				
<u>\</u> 8	Company name changed	Apr. 1 2012				
<u>\$</u>	Company name changed	Apr. 1 2013				
10	Company name changed	Apr. 1 2015				
SPECI	SPECIFICATIONS No.					
TE88119H						



SYMBOL	[TEM	DIMENSION	REMARKS
P	Pitch of component	25.4±1.0	Tilt of component and curvature of leads shall be included.
Р.	Feed hole pitch	12.7±0.2	
P.'	II	25.,4±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	
Δh _{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.	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	
9	Lead-wire protrusion	Omax.	
Ŷ.	Lead-wire depression	7. Omax.	
φD.	Feed hole diameter	4.0±0.2	
t	Total tape thickness	0.7±0.2	Total thickness including the hold down tape.
L.	Length of snipped lead	11. Omax.	

MARKING EXAMPLE

date code

250 □

CONSTRUCTION

The capacitor is of non-inductive construction, wound with metallized polyester film

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 Capacitance tolerance Rated voltage

at 1kHz :See table : ±5% (J). ±10% (K) at 1kHz

:250VDC €√7 (Derating of rated voltage by 1.25%/°C at more than 85°C)

Withstand voltage : 250VDC×150% for 60s

: ≥3000MΩ · μF 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 A ALL DIMENSIONS ARE IN MILLIMETERS

CHECKED

APPROVAL Y. Takata ESTABLISHMENT Jan. 5. 1994

TYPE NAME

ECQE2***() F3

NAME Metallized Polyester

Film Capacitor DRAWING NAME

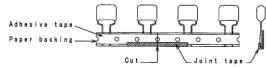
PRODUCT DRAWING

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.

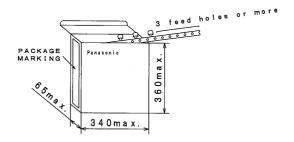


A tape sliding shall not exceed in an allowance of " P_0 " dimension. A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- 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	Packing
range	quantity
0. 39~1. 2μF	500
1. 5μF	400

3. Handling notes

- 1) One package must be packed one product only.
- The storage must be stacked 5 boxes or less (surface printed placing upward).
 (For prevention from displacement of capacitors and damage of lead crimping.)
- The packing box must be handled with care and never thrown out.



DRAWING No.

CT-H-3B6E (2/2)