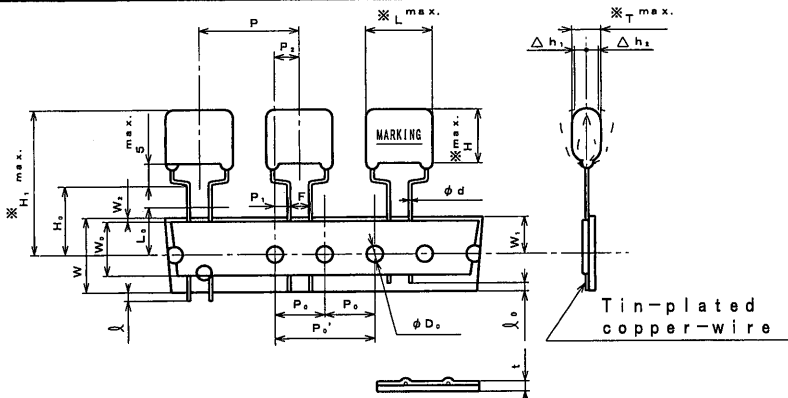


THIRD ANGLE PROJECTION

ITEM CODE	CAPACITANCE μF (*)	DIMENSIONS			
		※ L	※ T	※ H	※ H ₁
ECWH 16132R () V	0.0013 (132)	18.0	6.5	13.0	35.0
16152R () V	0.0015 (152)	18.0	7.0	13.5	35.5
16162R () V	0.0016 (162)	18.0	7.0	13.5	35.5
16182R () V	0.0018 (182)	18.0	7.5	14.0	36.0
16202R () V	0.002 (202)	18.0	7.5	14.0	36.0
16222R () V	0.0022 (222)	18.0	7.5	14.0	36.0
16242R () V	0.0024 (242)	18.0	7.5	14.0	36.0
16272R () V	0.0027 (272)	18.0	7.5	14.0	36.0
16302R () V	0.003 (302)	18.0	7.5	14.0	36.0
16332R () V	0.0033 (332)	18.0	7.5	14.5	36.5
16362R () V	0.0036 (362)	18.0	7.5	14.5	36.5
16392R () V	0.0039 (392)	18.0	7.5	14.5	36.5
16432R () V	0.0043 (432)	18.0	7.5	14.5	36.5
16472R () V	0.0047 (472)	23.0	6.5	14.5	36.5
16512R () V	0.0051 (512)	18.0	7.5	15.0	37.0
16562R () V	0.0056 (562)	18.0	7.5	15.0	37.0
16622R () V	0.0062 (622)	18.0	7.5	15.0	37.0
16682R () V	0.0068 (682)	18.0	7.5	15.5	37.5
16752R () V	0.0075 (752)	18.0	7.5	15.5	37.5
16822R () V	0.0082 (822)	18.0	7.5	16.0	38.0
16912R () V	0.0091 (912)	18.0	8.0	16.5	38.5
16103R () V	0.01 (103)	18.0	8.5	17.0	39.0
16113R () V	0.011 (113)	18.0	9.0	17.5	39.5
16123R () V	0.012 (123)	18.0	9.5	18.0	40.0
16133R () V	0.013 (133)	18.0	10.0	18.5	40.5
16153R () V	0.015 (153)	18.0	10.5	19.5	41.5
16163R () V	0.016 (163)	18.0	11.0	20.0	42.0
16183R () V	0.018 (183)	18.0	11.0	20.0	42.0
16203R () V	0.02 (203)	18.0	11.0	20.0	42.0

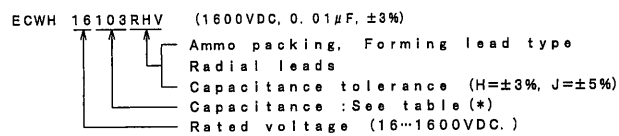


SYMBOL	ITEM	VALUE	TOLERANCE	REMARKS
P	Pitch of component	30.0	±1.0	Tilt of component and curvature of leads shall be included.
P ₁	Feed hole pitch	30.0	±0.2	
P ₂	Feed hole pitch	15.0	±0.2	
P ₁	Feed hole center to lead	3.75	±0.5	
P ₂	Hole center to comp. center	7.5	±1.3	Tilt of component due to curvature of leads shall be included.
φd	Lead-wire diameter	0.8	±0.05	
F	Lead-to-lead distance	7.5	±0.2	
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 ₁	Adhesive tape width	12.5	min.	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 ₁	Lead-wire clinch height	16.0	+1.0	
g	Lead wire protrusion	0	max.	
g ₁	Lead wire depression	7.0	max.	
φD ₀	Feed hole diameter	4.0	±0.2	
t	Total tape thickness	0.7	±0.2	
L ₁	Length of snapped lead	11.0	max.	

ALTERATION		
ISSUE	DESCRIPTION	DATE
△1	Company name changed	Apr. 1 2012
△2	Company name changed	Apr. 1 2013
△3	Company name changed	Apr. 1 2015

SPECIFICATIONS No.

ITEM CODE NUMBER STRUCTURE



CONSTRUCTION

The capacitor is of non-inductive construction, wound with metallized polypropylene film dielectric.
The capacitor is enclosed in non-combustible epoxy resin and has two leads.

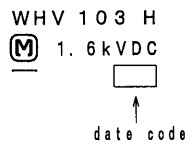
MARKING

Marking comprises capacitance, capacitance tolerance, rated voltage, manufacturer's trademark and type name "WHV" and manufacturer's date code.

PROPERTIES

- Capacitance : See table at 1kHz
- Capacitance tolerance : ±3% (H), ±5% (J)
- Rated voltage : 1600VDC (Derating of rated voltage by 1.25%/°C at more than 85°C)
- Withstand voltage (terminal-terminal) : DC Rated voltage x 150% for 60s
- (terminal-enclosure) : 1500VAC for 60s
- Insulation resistance : 30,000MΩ or more, at 500VDC, 20°C for 60s
- Dissipation factor : 0.1% or less at 1kHz, 0.2% or less at 10kHz
- Category temperature range : From -40°C to +105°C (including temperature rise on unit surface)

(example)

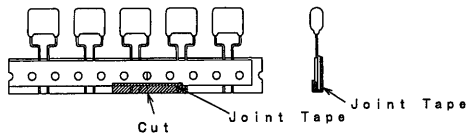


Reference

DESIGN	<i>M. Matsuda</i>
CHECKED	<i>M. Yamaguchi</i>
APPROVAL	<i>Y. Takata</i>
ESTABLISHMENT	Mar. 18, 2010
TYPE NAME	
ECWH 16***R () V	
NAME METALLIZED POLYPROPYLENE CAPACITOR	
DRAWING NAME	
PRODUCT DRAWING	
DRAWING No.	
0028J-J-E (1/2)	

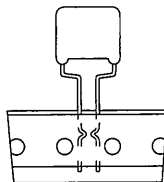
Toyama-Matsue Plant
 Device Solutions Business Division
 Panasonic Corporation

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



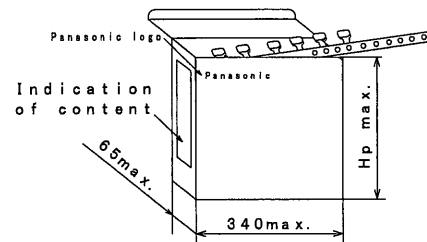
A tape sliding shall not exceed in an allowance of "P₀" dimension. A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- 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.
- Note 6. The lead clinch at the tape, shows as follows.



Packing specification

1. Case size (Ammo pack)



2. Packaging quantity

Capacitance range (μF)	Quantity (pcs.)	Hp
0.0013~0.0027	500	360
0.003 ~0.0033	400	"
0.0036~0.0043	500	"
0.0047~0.0068	"	"
0.0075~0.011	400	"
0.012 ~0.016	300	"
0.018 ~0.02	"	410

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	ECWH 16***R () V
DRAWING No.	0028J-J-E (2/2)

Toyama·Matsue Plant
Device Solutions Business Division
Panasonic Corporation