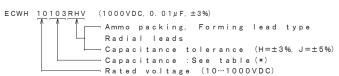
## THIRD ANGLE PROJECTION

<del></del>					
1.754 0005	CAPACITANCE	DIMENSIONS			
ITEM CODE	μF (*)	Ж L	Ж Т	Ж Н	<b>※</b> Η₁
ECWH 10752R() V	0.0075 (752)	18.#0	6. 0	12.5	34.5
" 10822R () V	0.0082 (822)	"	"	"	"
" 10912R () V	0.0091 (912)	"	"	13.0	35.0
" 10103R () V	0.01 (103)	"	6. 5	"	"
" 10113R () V	0.011 (113)	"	"	13.5	35.5
" 10123R () V	0.012 (123)	"	"	"	"
" 10133R () V	0.013 (133)	"	7. 0	"	"
" 10153R () V	0.015 (153)	"	"	14.0	36.0
" 10163R () V	0.016 (163)	"	7. 5	"	"
" 10183R () V	0.018 (183)	"	"	14.5	36.5
" 10203R () V	0.02 (203)	"	8. 0	15.0	37.0
" 10223R () V	0.022 (223)	"	8. 5	"	"
" 10243R () V	0.024 (243)	"	"	15.5	37.5
" 10273R () V	0.027 (273)	"	9. 0	16.0	38.0
" 10303R () V	0.03 (303)	"	9. 5	16.5	38.5
" 10333R () V	0.033 (333)	23.0	7. 5	16.0	38.0
" 10363R () V	0.036 (363)	"	"	"	"
" 10393R () V	0.039 (393)	"	8. 0	16.5	38.5
" 10433R () V	0.043 (433)	"	8. 5	"	"
" 10473R()V	0.047 (473)	"	"	17.0	39.0
" 10513R () V	0.051 (513)	"	9.0	17.5	39.5
" 10563R()V	0.056 (563)	"	9.5	"	"
" 10623R () V	0.062 (623)	"	"	18.0	40.0
" 10683R()V	0.068 (683)	"	10.0	19.0	41.0
" 10753R()V	0.075 (753)	"	10.5	19.5	41.5
" 10823R () V	0.082 (823)	"	11.0	20.0	42.0
" 10913R () V	0.091 (913)	"	11.5	20.5	42.5
" 10104R()V	0.1 (104)	"	12.0	21.0	43.0

# ITEM CODE NUMBER STRUCTURE



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					
4	Company name changed	Apr. 1 2022					
SPECIFICATIONS No.							

### 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  $1\,kHz$  Capacitance tolerance :  $\pm\,3\,\%$  (H),  $\pm\,5\,\%$  (J)

Rated voltage : 1000VDC (Derating of rated voltage by 1, 25%/°C at more than 85°C)

Withstand voltage

(terminal-terminal) : DC Rated voltage × 150% for 60s

(terminal-enclosure) : 1500VAC for 60s

Insulation resistance :  $30,000 M\Omega$  or more, at 500 VDC,  $20 ^{\circ}C$  for 60 sDissipation factor : 0.1 % or less at 1 kHz, 0.2 % or less at 10 kHz

DO NOT SCALE DRAWING

REVISIONS INDICATED BY  $\Delta$ 

ALL DIMENSIONS ARE IN MILIMETERS

(example)

WHV 103 H
(M) 1. 0 k V D C

date code

CHECREFERIOLD
APPROVAL

T. KATO

ESTABLISHMENT | Mar. 18. 2010

TYPE NAME

ECWH 10\*\*\*R() V

NAME METALLIZED

POLYPROPYLENE CAPACITOR

DRAWING NAME

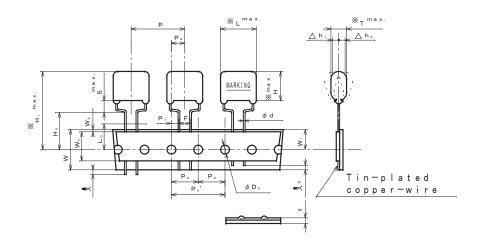
PRODUCT DRAWING

DRAWING No.

0022J-J-E(1/2)

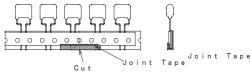
Film Capacitor Business Unit Device Solutions Business Division Panasonic Industry Co., Ltd.

## THIRD ANGLE PROJECTION



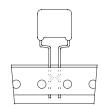
SYMBOL	ITEM	VALUE	TOLERANCE	REMARKS
Р	Pitch of component	30.0	±1.0	Tilt of component and curvature of leads shall be included.
Ρ₀'	Feed hole pitch	30.0	±0.2	
P <sub>o</sub>	Feed hole pitch	15.0	±0.2	
P <sub>1</sub>	Feed hole center to lead	3. 75	±0.5	
P <sub>2</sub>	Hole center to comp. center	7. 5	±1.3	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	±0.8	
∆ 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	
W <sub>0</sub>	Adhesive tape width	12.5	min.	The hold down tape shall not protrude beyond the carrier tape.
W <sub>1</sub>	Hole position	9. 0	±0.5	
W <sub>2</sub>	Hold-down tape position	0~3.0		
H <sub>0</sub>	Lead-wire clinch height	16.0	+1.0	
L	Lead wire protrusion	0	max.	
Q.	Lead wire depression	7. 0	max.	
φD <sub>0</sub>	Feed hole diameter	4. 0	±0.2	
t	Total tape thickness	0. 7	±0.2	
Lo	Length of snipped lead	11. 0	max.	

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



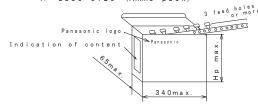
A tape sliding shall not exceed in an allowance of "Po" dimension. A joint tape put on the back side of paper backing, and turn up the lower part to the front.

- Note 3. 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. Packing quantity

Capacitance range (μF)	Quantity (pcs.)	Ηр
0.0075~0.018	500	360
0.02 ~0.024	400	"
0.027 ~0.03	300	"
0.033 ~0.047	400	"
0.051 ~0.082	300	"
0.091 ~0.1	11	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.

TYPE NAME

ECWH 10 \* \* \* R () V

DRAWING No.

0.022J-J-E(2/2)

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