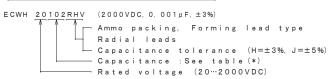
THIRD ANGLE PROJECTION

								
[1 7	EM CODE	CAPACITANCE		DIMENSIONS			
	ITEM CODE		μF	(*)	※ L	Ж Т	Ж Н	※ Η₁
	ECWH	20102R()V	0.001	(102)	18.0	6. 5	13.5	35.5
	11	20112R()V	0.0011	(112)	"	"	"	//
	11	20122R () V	0.0012	(122)	"	7. 0	//	"
ĺ	11	20132R()V	0.0013	(132)	"	"	14.0	36.0
	11	20152R()V	0.0015	(152)	//	7.5	"	11
[11	20162R()V	0.0016	(162)	//	"	14.5	36.5
/5\	11	20172R()V	0.0017	(172)	"	"	11	11
	11	20182R () V	0.0018	(182)	//	8. 0	"	//
	11	20202R () V	0.002	(202)	11	11	15.0	37.0
	11	20222R () V	0.0022	(222)	//	8. 5	"	11
	11	20242R () V	0.0024	(242)	11	11	15.5	37.5
	11	20272R()V	0.0027	(272)	//	9.0	16.0	38.0
[11	20302R () V	0.003	(302)	//	9.5	"	//
	11	20332R () V	0.0033	(332)	11	8. 5	15.5	37.5
[11	20362R () V	0.0036	(242)	//	9.0	"	//
	11	20392R () V	0.0039	(392)	11	11	16.0	38.0
[11	20432R () V	0.0043	(432)	//	9.5	"	11
	11	20472R()V	0.0047	(472)	23.0	7.0	15.5	37.5
	11	20512R () V	0.0051	(512)	"	7.5	16.0	38.0
	11	20562R()V	0.0056	(562)	11	11	//	"
	11	20622R () V	0.0062	(622)	11	8.0	16.5	38.5
	11	20682R () V	0.0068	(682)	//	8.5	"	11
[11	20722R () V	0.0072	(722)	11	"	17.0	39.0
[11	20752R () V	0.0075	(752)	"	9.5	18.0	40.0
[11	20822R () V	0.0082	(822)	11	10.0	//	11
	11	20912R () V	0.0091	(912)	11	"	19.0	41.0
[11	20103R () V	0.01	(103)	"	10.5	19.5	41.5
[11	20113R () V	0.011	(113)	"	11.0	20.0	42.0
[11	20123R () V	0.012	(123)	"	11.5	20.5	42.5
	11	20133R () V	0.013	(133)	11	12.0	21.0	43.0
[11	20153R () V	0.015	(153)	"	"	21.5	43.5
-								

ITEM CODE NUMBER STRUCTURE



	ALTERATION	
ISSUE	DESCRIPTION	DATE
/3\	Company name changed	Oct.
757		200
4	Company name changed	Apr.
7-1		200
5	Addition (172)	Dec. 1
	Modification Case Size (360→410max.)	200
6	Company name changed	Apr.
767		200
A	Alteration:	Apr. 20
	Category temperature range	200
	(-25°C→-40°C)	
/8	Correction: category	Apr.
	temperature range (-40°C~+85°C→-40°C~+105°C)	2008
	Addition:rated voltage	
	(Derating of rated voltage by	
	1. 25%/°C at more than 85°C) Company name changed	
9	Company name changed	Apr.
		2011
10	Company name changed	Apr.
		2010
Λ	Company name changed	Apr.
	C	2015
12	Company name changed	Apr.
		2022
SPECI	FICATIONS No.	
1		

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 : $\pm 3\%$ (H), $\pm 5\%$ (J)

Rated voltage : 2000 VDC ♠ (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 : $30,000M\Omega$ or more, at 500VDC, $20^{\circ}C$ for 60s Dissipation factor : 0.1% or less at 1kHz, 0.2% or less at 10kHz

Category temperature range : $\frac{1}{2}$ From $-40\,^{\circ}$ C to $+105\,^{\circ}$ C

(including temperature rise on unit surface)

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

(example)

WHV 102 H

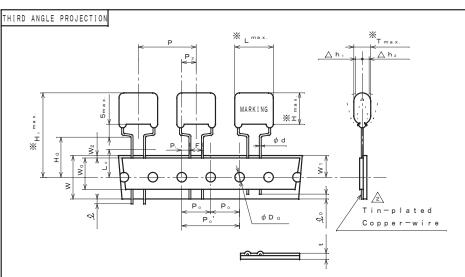


date code

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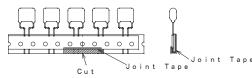
Film Capacitor Business Unit Device Solutions Business Division Panasonic Industry Co., Ltd.

CH-H-739J (1/2)



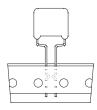
SYMBOL	ITEM	VALUE	TOLERANCE	REMARKS
P	Pitch of component	30.0	±1.0	Tilt of component and curvature of leads shall be included.
P , '	Feed hole pitch	30.0	±0.2	
P ₀	Feed hole pitch	15.0	±0.2	
P 1	Feed hole center to lead	3.75	±0.5	
P ₂	Hole center to comp. center	7. 5	±1. 3	Tilt of component due to curvature of leads shall be included.
φ d	Lead-wire diameter	0.8	±0.05	
F	Lead-to-lead distance	7. 5	+0.8 -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	
W₀	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 ₀	Lead-wire clinch height	16.0	+1.0	
l.	Lead wire protrusion	0	max.	
Q.	Lead wire depression	7. 0	max.	
φ D ₀	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.	

- 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



2. Packaging quantity

Capacitance range (μF)	Quantity (pcs.)
0.001 ~0.0013	500
0.0015~0.0024	400
0.0027~0.003	300
0.0033	400
0.0036~0.0043	300
0.0047	500
0.0051~0.0072	400
0.0075~0.015	300

Handling notes

1) One package must be packed one product only.

340max

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 packaging box must be handled with care and never thrown out.

TYPE NAME ECWH 20***R() V DRAWING No. CH-H-739J(2/2)

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