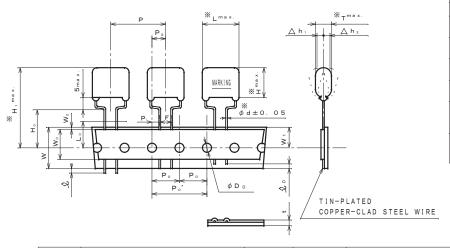
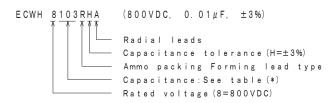
THIRD ANGLE PROJECTION

		CAP.		DIMENSIONS				
ITEM CODE								
		μF	(*)	₩ L	Ж Т	Ж Н	Ж H ₁	Ж d
ECW	H8103RHA	0.010	(103)	15. 4	5. 4	9.8	31.8	0.6
"	8123RHA	0.012	2 (123)	11	5. 8	10.2	32.2	"
"	8153RHA	0.015	(153)	"	6. 2	10.6	32.6	"
"	8183RHA	0.018	3 (183)	15. 7	6. 6	11. 0	33.0	0.8
"	8223RHA	0.022	2 (223)	"	7. 1	11. 5	33.5	"
"	8273RHA	0.027	7 (273)	"	7. 6	12. 0	34.0	"
"	8333RHA	0.033	3 (333)	"	8. 4	12.8	34.8	"
"	8393RHA	0.039	(393)	"	8. 9	13. 3	35.3	"
"	8473RHA	0.047	7 (473)	"	9. 7	14. 1	36.1	"



ALTERATION					
ISSUE	DESCRIPTION DATE				
1	Company name changed	Apr. 1			
		2012			
2	Company name changed	Apr. 1			
22		2013			
3	Company name changed	Apr. 1			
201		2015			
A	Company name changed	Apr. 1			
7+7		2022			
SPECIFICATIONS No.					

ITEM CODE NUMBER STRUCTURE



SYMBOL	ITEM	VALUE	TOLERANCE	REMARKS
Р	Pitch of component	30.0	±1.0	Tilt of component and curvature of leads shall be included.
P ₀ '	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.
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	
Q.	Lead wire protrusion	0	max.	
Qs	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.
L ₀	Length of snipped lead	11.0	max.	

CONSTRUCTION

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

The capacitor is enclosed in non-combustible epoxy resin and has two leads.

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

PROPERTIES

*Capacitance :See table at 1kHz. *Capacitance tolerance :±3% (H) at 1kHz.

*Rated voltage :800VDC

*Withstand voltage (terminal-terminal):800VDC×150% for 60s

*Insulation resistance : $\geq 30000M\Omega$ at 500VDC, $20^{\circ}C$ for 60s

*Dissipation factor :≦0.1% at 1kHz, 20°C :From −40°C to +105°C

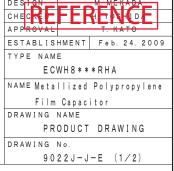
*Category temperature range

(including temperature rise on unit surface)

MARKING EXAMPLE

WHA103H 800V

date code

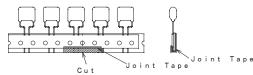


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DO NOT SCALE DRAWING REVISIONS INDICATED BY Δ ALL DIMENSIONS ARE IN MILLIMETERS

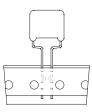
THIRD ANGLE PROJECTION

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



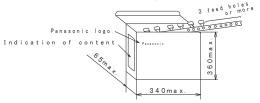
A tape sliding shall not exceed in an allowance of "Po" dimension. A joint tape put on the back side of paper backing, and turn up the lower part to the front.

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



Packing specification

1. Case size (Ammo pack)



2. Packing quantity

Capacı	Quantity	
range	(μF)	(pcs.)
0.01 ~	0.018	500
0.022,	0.027	400
0.033~	0.047	300

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 8 * * * RHA

DRAWING No.

9022J-J-E(2/2)

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