



**THE DATASHEET OF  
ECW-U1H683JB9**



### Film Chip Capacitor

Type: **ECWU(B)**

Stacked metallized PEN dielectric film with simple mold-less construction

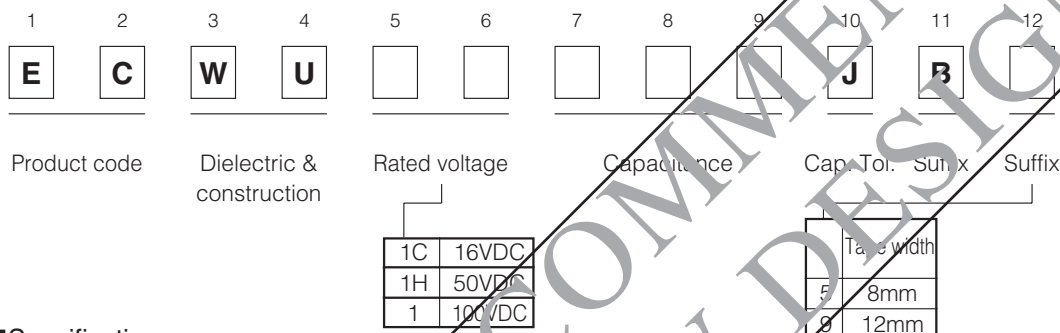
#### ■ Features

- Small in size (minimum size 3.2×1.6 mm)
- 85°C, 85%RH, W.V. × 1.0 for 500 hours
- For reflow soldering

#### ■ Recommended Applications

- Coupling
- By-pass
- General purpose

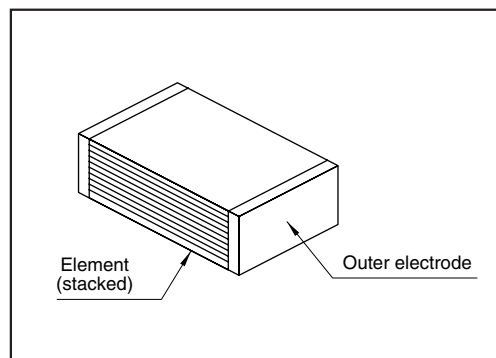
#### ■ Explanation of Part Numbers



#### ■ Specifications

Category temp. range	-55 to +105°C
Rated voltage	16VDC, 50VDC, 100VDC
Capacitance range	0.001 to 0.4 μF
Capacitance tolerance	±5% (J)
Withstand voltage	Between terminals : Rated volt. (VDC)×175% 1 to 5s
Dissipation factor	≤1.0% (20°C 1kHz)
Insulation resistance	C ≤ 0.33μF 16VDC : ≥3000MΩ(20°C, 10VDC 60s) 50VDC : ≥3000MΩ(20°C, 50VDC 60s) 100VDC : ≥3000MΩ(20°C, 100VDC 60s)
	C > 0.33μF 16VDC : 1000MΩ . μF min. (20°C, 10VDC 60s)
Soldering conditions	Reflow soldering : 240°C max. and 30sec max. at more than 210°C (Temp. at cap. surface)

#### ■ Construction



#### ■ Dimensions in mm (not to scale)

Size code	L	W	H
H1	3.2	1.6	0.8
H2	3.2	1.6	1.0
H3	3.2	1.6	1.4
G1	3.2	2.5	1.0
G2	3.2	2.5	1.4
G3	3.2	2.5	2.0
E1	4.8	3.3	1.4
E2	4.8	3.3	2.0
E3a	4.8	3.3	2.4
E3	4.8	3.3	2.8
D1	6.0	4.1	1.8
D2	6.0	4.1	2.0
D3	6.0	4.1	2.4
D4	6.0	4.1	2.8

Size code H1,H2,H3,G1,G2,G3, E1,E2,E3a and E3.	L±0.2	W±0.2	H±0.2
	0.35±0.20	0.35±0.20	0.35±0.20
Size code D1,D2,D3 and D4.	L±0.2	W±0.3	H±0.2
	0.45±0.20	0.45±0.20	0.45±0.20

\* To be applied only for size code E1, E2 E3a and E3.

## ■Taping Specification for Automatic Insertion(Mounting)

Refer to the PDF file of taping specifications

## ■Rating, Dimensions & Quantity/Reel

Cap. (μF)	Rated volt. 16VDC					Rated volt. 50VDC					Rated volt. 100VDC															
	Part No.	Dimensions (mm)			Code	Q'ty	Part No.	Dimensions (mm)			Code	Q'ty	Part No.	Dimensions (mm)			Code	Q'ty								
		L	W	H				L	W	H				L	W	H										
0.001	For this rating use type ECHU(B)					For this rating use type ECHU(B)					ECWU1102JB5	3.2	1.6	1.0	H2	3000										
0.0012											ECWU1122JB5	3.2	1.6	1.0	H2											
0.0015											ECWU1152JB5	3.2	1.6	1.0	H2											
0.0018											ECWU1182JB5	3.2	1.6	1.0	H2											
0.0022											ECWU1222JB5	3.2	1.6	1.0	H2											
0.0027											ECWU1272JB5	3.2	1.6	1.0	H2											
0.0033											For this rating use type ECHU(B)					For this rating use type ECHU(B)					ECWU1332JB5	3.2	1.6	1.4	H3	2000
0.0039																					ECWU1392JB5	3.2	1.6	1.4	H3	
0.0047																					ECWU1472JB5	3.2	1.6	1.4	H3	
0.0056																					ECWU1562JB5	3.2	2.5	1.4	G2	
0.0068																					ECWU1682JB5	3.2	2.5	1.4	G2	
0.0082																					ECWU1822JB5	3.2	2.5	2.0	G3	
0.01																					ECWU1H103JB5	3.2	1.6	1.0	H2	3000
0.012																					ECWU1H123JB5	3.2	2.5	1.0	G1	
0.015																					ECWU1H153JB5	3.2	2.5	1.0	G1	
0.018	ECWU1H183JB5	3.2	2.5	1.4	G2																					
0.022	ECWU1H223JB5	3.2	2.5	1.4	G2																					
0.027	ECWU1H273JB5	3.2	2.5	1.4	G2																					
0.033	ECWU1H333JB5	3.2	2.5	2.0	G3	2000																				
0.039	ECWU1H393JB5	3.2	2.5	2.0	G3																					
0.047	ECWU1H473JB5	3.2	2.5	2.0	G3																					
0.056	ECWU1H563JC9	4.8	3.3	2.0	E1																					
0.068	ECWU1H683JC9	4.8	3.3	2.0	E2																					
0.082	ECWU1H823JC9	4.8	3.3	2.4	E3a																					
0.1	ECWU1H104JC9	4.8	3.3	2.4	E3a	3000																				
0.12	ECWU1H124JC9	6.0	4.1	1.8	D1																					
0.15	ECWU1H154JC9	6.0	4.1	2.0	D2																					
0.18	ECWU1H184JC9	6.0	4.1	2.4	D3																					
0.22	ECWU1H224JC9	6.0	4.1	2.8	D4																					
0.27	ECWU1C274JC9	6.0	4.1	1.8	D1																					
0.33	ECWU1C334JC9	6.0	4.1	2.0	D2	2000																				
0.39	ECWU1C394JC9	6.0	4.1	2.4	D3																					
0.47	ECWU1C474JC9	6.0	4.1	2.8	D4																					

## ■Example for Land Dimensions (mm)

Electrode

Land

C

A

B

Code	Land dimensions		
	Reflow soldering		
	A	B	C
H1	2.2	3.8	1.4
H2	2.2	3.8	1.4
H3	2.2	3.8	1.4
G1	2.2	3.8	2.3
G2	2.2	3.8	2.3
G3	2.2	3.8	2.3
E1	2.6	6.6	3.0
E2	2.6	6.6	3.0
E3a	2.6	6.6	3.0
E3	2.6	6.6	3.0
D1	3.8	7.8	3.8
D2	3.8	7.8	3.8
D3	3.8	7.8	3.8
D4	3.8	7.8	3.8

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