



**THE DATASHEET OF
ECW-U1C474JB9**



Film Chip Capacitor

Type: **ECWU(B)**

Stacked metallized PEN dielectric film with simple mold-less construction

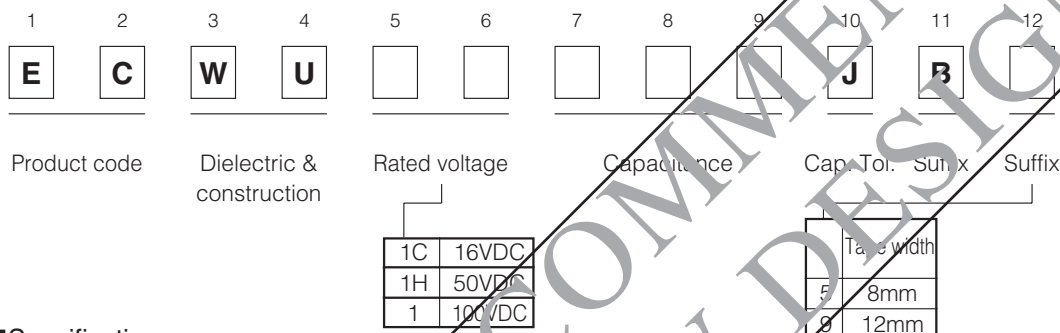
■ Features

- 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

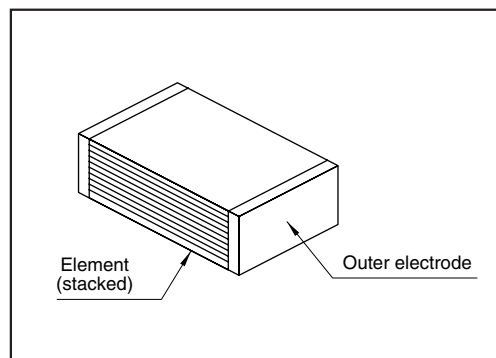
■ Explanation of Part Numbers



■ 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 H1,H2,H3,G1,G2,G3, E1,E2,E3a and E3. $L \pm 0.2$ $(\pm 0.3) \star$ $W \pm 0.2$ $H \pm 0.2$ 0.35 ± 0.20 0.35 ± 0.20 | \star To be applied only for size code E1, E2 E3a and E3. | Size code | L | W | H |
| | | H1 | 3.2 | 1.6 | 0.8 |
| Size code D1,D2,D3 and D4. $L \pm 0.2$ $W \pm 0.3$ 0.45 ± 0.20 0.45 ± 0.20 | | 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 | |

■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 | | | | | | | | | | | | | | | | | | | | | ECWU1662JB5 | 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)

| 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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