

Stacked Metallized PEN Film Chip Capacitor

Type : **ECWU(V16)**

Stacked metallized PEN film dielectric with simple moldless construction



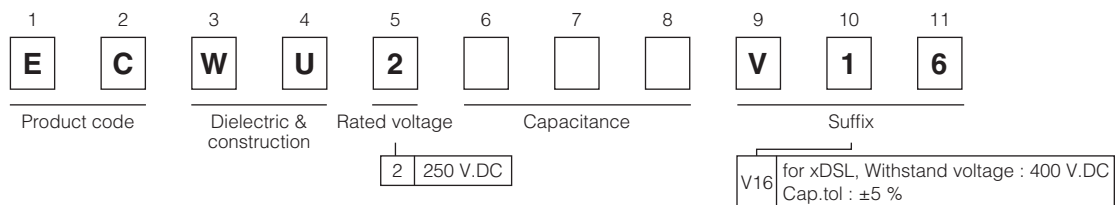
Features

- Small in size
- For reflow soldering
- RoHS directive compliant

Recommended applications

- DC Blocking for xDSL

Explanation of part number

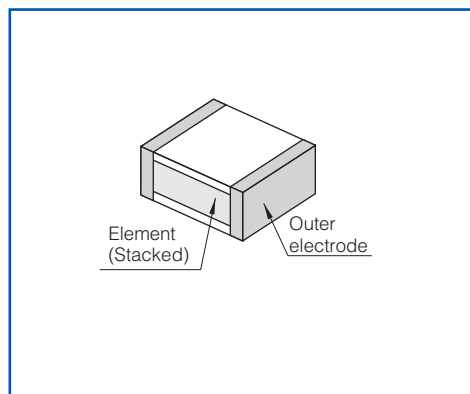


Specifications

| | |
|--|--|
| Category temp. range (Including temperature-rise on unit surface) | - 55 °C to +85 °C |
| Rated voltage | 250 V.DC |
| Capacitance range | 0.0010 μF to 0.12 μF (E12) |
| Capacitance tolerance | ±5 % (J) |
| Dissipation factor (tan δ) | tan δ ≤ 1.0 % (20 °C, 1 kHz) |
| Withstand voltage | Between terminals : 400 V.DC, 60 s |
| Insulation resistance (IR) | IR ≥ 3000 MΩ (20 °C, 100 V.DC, 60 s) |
| Soldering conditions | Reflow soldering : 250 °C max. and 60 s max. at more than 220 °C (Temp. at capacitor surface) |

- * Application of this capacitor is limited to DC Blocking for xDSL, such as ADSL.
- * Please consult us for 400 V.DC rating product.

Construction



Dimensions

Unit : mm

| Size code | L | W | H |
|-----------|-----|-----|-----|
| 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 |
| D2 | 6.0 | 4.1 | 2.0 |
| D3 | 6.0 | 4.1 | 2.4 |
| D4 | 6.0 | 4.1 | 2.8 |
| D5 | 6.0 | 4.1 | 3.2 |
| B | 6.0 | 5.0 | * |

* To be applied only for size code B

* Refer to the column "Rating, Dimensions & Quantity".

Taping specification for automatic mounting

Refer to the page of taping specifications

Rating · Dimensions · Quantity

- Capacitance tolerance : $\pm 5\%$ (J)

| Capacitance (μF) | Rated voltage 250 V.DC | | | | | Size code | Q'ty |
|----------------------------------|------------------------|-----------------|-----|-----|-----|--------------|------|
| | Part No. | Dimensions (mm) | | | | | |
| | | L | W | H | | | |
| 0.0010 | ECWU2102V16 | 4.8 | 3.3 | 1.4 | E1 | 3000 | |
| 0.0012 | ECWU2122V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0015 | ECWU2152V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0018 | ECWU2182V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0022 | ECWU2222V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0027 | ECWU2272V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0033 | ECWU2332V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0039 | ECWU2392V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0047 | ECWU2472V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0056 | ECWU2562V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0068 | ECWU2682V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.0082 | ECWU2822V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.010 | ECWU2103V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.012 | ECWU2123V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.015 | ECWU2153V16 | 4.8 | 3.3 | 1.4 | E1 | | |
| 0.018 | ECWU2183V16 | 4.8 | 3.3 | 2.0 | E2 | | |
| 0.022 | ECWU2223V16 | 4.8 | 3.3 | 2.0 | E2 | | |
| 0.027 | ECWU2273V16 | 4.8 | 3.3 | 2.4 | E3a | 2000 | |
| 0.033 | ECWU2333V16 | 4.8 | 3.3 | 2.8 | E3 | | |
| 0.039 | ECWU2393V16 | 6.0 | 4.1 | 2.0 | D2 | 3000 | |
| 0.047 | ECWU2473V16 | 6.0 | 4.1 | 2.4 | D3 | 2000 | |
| 0.056 | ECWU2563V16 | 6.0 | 4.1 | 2.8 | D4 | | |
| 0.068 | ECWU2683V16 | 6.0 | 4.1 | 3.2 | D5 | | |
| 0.082 | ECWU2823V16 | 6.0 | 5.0 | 3.2 | B | 1500 | |
| 0.10 | ECWU2104V16 | 6.0 | 5.0 | 3.8 | B | | |
| 0.12 | ECWU2124V16 | 6.0 | 5.0 | 4.5 | B | | |

Recommended for land dimensions

The diagram shows a cross-section of a capacitor land. It features two electrodes on either side of a central land. Dimension A is the width of the land, B is the total width including both electrodes, and C is the height of the land. The electrodes are labeled 'Electrode' and the central area is labeled 'Land'.

Unit : mm

| Size code | Land dimensions | | |
|-----------------|------------------|-----|-----|
| | Reflow soldering | | |
| | A | B | C |
| E1, E2, E3a, E3 | 2.6 | 6.6 | 3.0 |
| D2, D3, D4, D5 | 3.8 | 7.8 | 3.8 |
| B | 3.8 | 7.8 | 4.6 |

* It is not warrantable that you can mount the capacitor without trouble under all the mounting condition when "Recommender for Land dimensions" is adopted.