

Radial Lead Type

Series: GA(Bi-polar) Type : A

Country of Origin

Japan
Malaysia
China
Taiwan

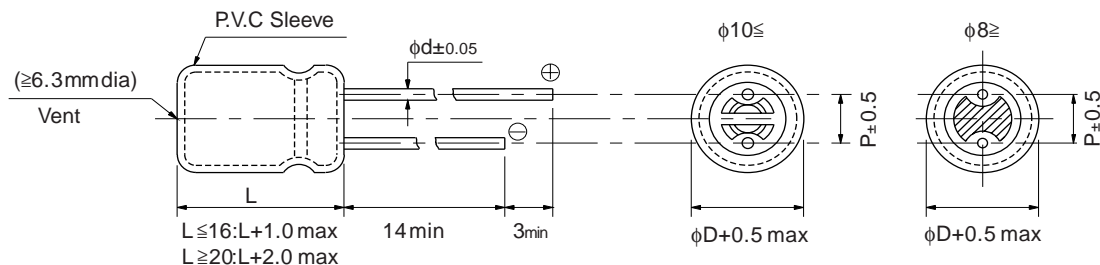


■ Features Endurance:105°C 1000 h to 2000 h

■ Specifications

| | | | | | | | | | |
|------------------------------------|--|------------------------------------|----|----|----|----|-----------|----------------------------|--------|
| Category temp.range | -40 to +105°C | | | | | | | | |
| Rated W.V. Range | 6.3 to 50 V .DC | | | | | | | | |
| Nominal Cap. Range | 0.47 to 330 μ F | | | | | | | | |
| Capacitance Tolerance | ±20 % (120Hz/+20°C) | | | | | | | | |
| DC Leakage Current | $I \leq 0.03 CV + 3(\mu A)$ after 2 minutes $I \leq 0.03 CV$ or $3(\mu A)$ after 5 minutes (Whichever , greater) | | | | | | | | |
| Dissipation Factor | Please see the attached standard products list | | | | | | | | |
| Characteristics at Low Temperature | W.V. (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | (Impedance ratio at 120Hz) | |
| | Z(-25°C)/Z(+20°C) | 4 | 3 | 2 | 2 | 2 | 2 | | |
| | Z(-40°C)/Z(+20°C) | 8 | 6 | 4 | 4 | 4 | 3 | | |
| | 1. Add 0.5 per 1000 μF for products of 1000 μF or more at -25 °C 2. Add 1.0 per 1000 μF for products of 1000 μF or more at -40 °C | | | | | | | | |
| Endurance | After (*1) hours application of DC working voltage (*2 hours for each polarity) at +105°C, the capacitor shall meet the following limits. | | | | | | | | |
| | Capacitance change | ± 20% of initial measured value | | | | | Case size | *1 | *2 |
| | tan δ | ≤ 200 % of initial specified value | | | | | φ5 to φ8 | 1000 h | 500 h |
| | DC leakage current | ≤ initial specified value | | | | | φ10 | 2000 h | 1000 h |
| Shelf Life | After storage for 1000 hours at +105±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in "Endurance". (With voltage treatment) | | | | | | | | |

■ Dimensions in mm (not to scale)



| | | | | |
|--------------|-----|-----|-----|-----|
| Body Dia. φD | 5 | 6.3 | 8 | 10 |
| Lead Dia. φd | 0.5 | 0.5 | 0.6 | 0.6 |
| Lead space P | 2.0 | 2.5 | 3.5 | 5.0 |

■Standard Products

| W.V. (V) | Cap. (±20%) (μF) | Case size | | Specification | | Lead Length | | | | Part No. | Min. Packaging Qty | |
|-------------|------------------------|--------------|----------------|---|-----------------------------|-------------------|------------------|----------------------|----------------------|---------------|-------------------------|-----------------|
| | | Dia. (mm) | Length (mm) | Ripple current (120Hz) (+105°C) (mA) | tan δ (120Hz) (+20°C) | Lead Dia. (mm) | Lead Space | | | | Straight Leads (pcs) | Taping (pcs) |
| | | | | | | | Straight (mm) | Taping *B (mm) | Taping *i (mm) | | | |
| 6.3 | 100 | 6.3 | 11.2 | 130 | 0.30 | 0.5 | 2.5 | 5.0 | 2.5 | ECA0JEN101() | 200 | 2000 |
| | 330 | 8 | 11.5 | 250 | 0.30 | 0.6 | 3.5 | 5.0 | | ECA0JEN331() | 200 | 1000 |
| 10 | 47 | 5 | 11 | 90 | 0.24 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1AEN470() | 200 | 2000 |
| 16 | 10 | 5 | 11 | 40 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CEN100() | 200 | 2000 |
| | 22 | 5 | 11 | 60 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CEN220() | 200 | 2000 |
| | 33 | 5 | 11 | 80 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CEN330() | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 100 | 0.20 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1CEN470() | 200 | 2000 |
| 25 | 10 | 5 | 11 | 45 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1EEN100() | 200 | 2000 |
| | 22 | 6.3 | 11.2 | 60 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1EEN220() | 200 | 2000 |
| | 33 | 6.3 | 11.2 | 90 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1EEN330() | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 110 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1EEN470() | 200 | 2000 |
| | 100 | 8 | 11.5 | 180 | 0.15 | 0.6 | 3.5 | 5.0 | | ECA1EEN101() | 200 | 1000 |
| 35 | 33 | 8 | 11.5 | 100 | 0.15 | 0.6 | 3.5 | 5.0 | | ECA1VEN330() | 200 | 1000 |
| | 100 | 10 | 16 | 230 | 0.15 | 0.6 | 5.0 | 5.0 | | ECA1VEN101() | 200 | 500 |
| 50 | 0.47 | 5 | 11 | 10 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HENR47() | 200 | 2000 |
| | 1 | 5 | 11 | 10 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HEN010() | 200 | 2000 |
| | 2.2 | 5 | 11 | 18 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HEN2R2() | 200 | 2000 |
| | 3.3 | 5 | 11 | 25 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HEN3R3() | 200 | 2000 |
| | 4.7 | 5 | 11 | 30 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HEN4R7() | 200 | 2000 |
| | 10 | 6.3 | 11.2 | 50 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1HEN100() | 200 | 2000 |
| | 22 | 8 | 11.5 | 90 | 0.15 | 0.6 | 3.5 | 5.0 | | ECA1HEN220() | 200 | 1000 |
| | 33 | 8 | 11.5 | 110 | 0.15 | 0.6 | 3.5 | 5.0 | | ECA1HEN330() | 200 | 1000 |
| | 47 | 10 | 12.5 | 140 | 0.15 | 0.6 | 5.0 | 5.0 | | ECA1HEN470() | 200 | 500 |
| | 100 | 10 | 20 | 250 | 0.15 | 0.6 | 5.0 | 5.0 | | ECA1HEN101() | 200 | 500 |

When requesting taped product, please put the letter "B" or "i" between the "()". Lead wire pitch B=5mm, 7.5mm.
i=2.5mm.

The taping dimensions are explained on p.188 of our Catalog. Please use it as a reference guide.

Endurance : φ5 to φ8 :105°C 1000 h

φ10 :105°C 2000 h

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