

Radial Lead Type

Series: **SU(Bi-polar)** Type: **A**



■ Features

- Endurance : 85 °C 2000 h
- RoHS directive compliant

■ Specifications

| | | | |
|-----------------------|--|------------------------------------|--|
| Category Temp. Range | -40 °C to +85 °C | | |
| Rated W.V. Range | 6.3 V.DC to 50 V.DC | | |
| Nominal Cap. Range | 0.47 μF to 6800 μF | | |
| Capacitance Tolerance | ±20 % (120 Hz/+20 °C) | | |
| DC Leakage Current | $I \leq 0.03 CV + 3$ (μA) After 5 minutes | | |
| tan δ | Please see the attached standard products list. | | |
| Endurance | After 2000 hours application of DC working voltage (1000 hours for each polarity) at +85 °C±2 °C, when the capacitors are restored to 20 °C, the capacitors shall meet the following limits. | | |
| | Capacitance change | ± 20 % of initial measured value | |
| | tan δ | ≤ 150 % of initial specified value | |
| | DC leakage current | ≤ initial specified value | |
| Shelf Life | After storage for 1000 hours at +85 °C±2 °C with no voltage applied and then being stabilized at +20 °C capacitors shall meet the limits specified in Endurance. (With voltage treatment) | | |

■ Frequency correction factor for ripple current

| | Frequency (Hz) | | | |
|-------------------|----------------|------|------|---------|
| | 50, 60 | 120 | 1 k | 10 k to |
| Correction factor | 0.70 | 1.00 | 1.30 | 1.70 |

■ Dimensions in mm (not to scale)

(Unit : mm)



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

00 Nov. 2012

■ Standard Products (Bi-polar)

Endurance: 85 °C 2000 h (1000 hours for each polarity)

| W.V. (V) | Cap. (±20 %) (μF) | Case size | | Specification | | Lead Length | | | | Part No. | Min. Packaging Qty | |
|-------------|-------------------------|--------------|----------------|---|--------------------------------------|-------------------|------------------|----------------------|----------------------|----------------|-------------------------|-----------------|
| | | Dia. (mm) | Length (mm) | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) (Ω) | Lead Dia. (mm) | Lead Space | | | | Straight Leads (pcs) | Taping (pcs) |
| | | | | | | | Straight (mm) | Taping *B (mm) | Taping *i (mm) | | | |
| 6.3 | 330 | 8 | 11.5 | 250 | 0.30 | 0.6 | 3.5 | 5.0 | | ECEA0JN331U() | 200 | 1000 |
| | 470 | 10 | 12.5 | 310 | 0.30 | 0.6 | 5.0 | 5.0 | | ECEA0JN471X() | 200 | 500 |
| | 1000 | 10 | 20 | 430 | 0.30 | 0.6 | 5.0 | 5.0 | | ECEA0JN102U() | 200 | 500 |
| | 2200 | 12.5 | 25 | 660 | 0.32 | 0.6 | 5.0 | 5.0 | | ECEA0JN222U() | 200 | 500 |
| | 3300 | 16 | 25 | 760 | 0.34 | 0.8 | 7.5 | 7.5 | | ECEA0JN332U() | 100 | 250 |
| | 4700 | 16 | 31.5 | 1170 | 0.36 | 0.8 | 7.5 | | | ECEA0JN472U | 100 | |
| | 6800 | 18 | 35.5 | 1450 | 0.40 | 0.8 | 7.5 | | | ECEA0JN682U | 50 | |
| 10 | 47 | 5 | 11 | 90 | 0.25 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1AN470U() | 200 | 2000 |
| | 100 | 6.3 | 11.2 | 130 | 0.25 | 0.5 | 2.5 | 5.0 | 2.5 | ECEA1AN101X() | 200 | 2000 |
| | 220 | 8 | 11.5 | 200 | 0.25 | 0.6 | 3.5 | 5.0 | | ECEA1AN221U() | 200 | 1000 |
| | 330 | 10 | 16 | 280 | 0.25 | 0.6 | 5.0 | 5.0 | | ECEA1AN331U() | 200 | 500 |
| | 470 | 10 | 16 | 340 | 0.25 | 0.6 | 5.0 | 5.0 | | ECEA1AN471U() | 200 | 500 |
| | 1000 | 12.5 | 20 | 470 | 0.25 | 0.6 | 5.0 | 5.0 | | ECEA1AN102X() | 200 | 500 |
| | 2200 | 16 | 25 | 690 | 0.27 | 0.8 | 7.5 | 7.5 | | ECEA1AN222U() | 100 | 250 |
| | 3300 | 16 | 31.5 | 1090 | 0.29 | 0.8 | 7.5 | | | ECEA1AN332U | 100 | |
| 4700 | 18 | 35.5 | 1200 | 0.31 | 0.8 | 7.5 | | | ECEA1AN472U | 50 | | |
| 16 | 10 | 5 | 11 | 40 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1CN100U() | 200 | 2000 |
| | 22 | 5 | 11 | 60 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1CN220U() | 200 | 2000 |
| | 33 | 5 | 11 | 80 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1CN330U() | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 100 | 0.20 | 0.5 | 2.5 | 5.0 | 2.5 | ECEA1CN470U() | 200 | 2000 |
| | 220 | 10 | 12.5 | 260 | 0.20 | 0.6 | 5.0 | 5.0 | | ECEA1CN221X() | 200 | 500 |
| | 330 | 10 | 16 | 330 | 0.20 | 0.6 | 5.0 | 5.0 | | ECEA1CN331U() | 200 | 500 |
| | 470 | 10 | 20 | 380 | 0.20 | 0.6 | 5.0 | 5.0 | | ECEA1CN471U() | 200 | 500 |
| | 1000 | 12.5 | 25 | 560 | 0.20 | 0.6 | 5.0 | 5.0 | | ECEA1CN102U() | 200 | 500 |
| | 2200 | 16 | 31.5 | 750 | 0.22 | 0.8 | 7.5 | | | ECEA1CN222U | 100 | |
| | 3300 | 18 | 35.5 | 900 | 0.24 | 0.8 | 7.5 | | | ECEA1CN332U | 50 | |
| 25 | 10 | 5 | 11 | 45 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1EN100U() | 200 | 2000 |
| | 22 | 5 | 11 | 60 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1EN220X() | 200 | 2000 |
| | 33 | 6.3 | 11.2 | 90 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECEA1EN330U() | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 110 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECEA1EN470U() | 200 | 2000 |
| | 100 | 8 | 11.5 | 180 | 0.15 | 0.6 | 3.5 | 5.0 | | ECEA1EN101U() | 200 | 1000 |
| | 220 | 10 | 16 | 320 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1EN221U() | 200 | 500 |
| | 330 | 12.5 | 20 | 350 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1EN331U() | 200 | 500 |
| | 470 | 12.5 | 20 | 430 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1EN471U() | 200 | 500 |
| | 1000 | 16 | 25 | 680 | 0.15 | 0.8 | 7.5 | 7.5 | | ECEA1EN102U() | 100 | 250 |
| | 2200 | 18 | 35.5 | 900 | 0.17 | 0.8 | 7.5 | | | ECEA1EN222U | 50 | |
| 35 | 10 | 5 | 11 | 43 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1VN100U() | 200 | 2000 |
| | 22 | 6.3 | 11.2 | 80 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECEA1VN220U() | 200 | 2000 |
| | 33 | 8 | 11.5 | 100 | 0.15 | 0.6 | 3.5 | 5.0 | | ECEA1VN330U() | 200 | 1000 |
| | 47 | 8 | 11.5 | 120 | 0.15 | 0.6 | 3.5 | 5.0 | | ECEA1VN470U() | 200 | 1000 |
| | 100 | 10 | 16 | 230 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1VN101U() | 200 | 500 |
| | 220 | 12.5 | 20 | 360 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1VN221U() | 200 | 500 |
| | 330 | 12.5 | 20 | 450 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1VN331U() | 200 | 500 |
| | 470 | 12.5 | 25 | 590 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1VN471U() | 200 | 500 |

· When requesting taped product, please put the letter "B" or "i" between the "()". Lead wire pitch B=5 mm, 7.5 mm, i=2.5 mm.
 · Please refer to the page of "Taping Dimensions".

■ Standard Products (Bi-polar)

Endurance: 85 °C 2000 h (1000 hours for each polarity)

| W.V. (V) | Cap. (±20 %) (μF) | Case size | | Specification | | Lead Length | | | Part No. | Min. Packaging Q'ty | | |
|-------------|-------------------------|--------------|----------------|---|--------------------------------------|-------------------|------------------|----------------------|----------|-------------------------|-----------------|----------------------|
| | | Dia. (mm) | Length (mm) | Ripple Current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) (Ω) | Lead Dia. (mm) | Lead Space | | | Straight Leads (pcs) | Taping (pcs) | |
| | | | | | | | Straight (mm) | Taping *B (mm) | | | | Taping *i (mm) |
| 50 | 0.47 | 5 | 11 | 10 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1HNR47U() | 200 | 2000 |
| | 1 | 5 | 11 | 10 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1HN010U() | 200 | 2000 |
| | 2.2 | 5 | 11 | 18 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1HN2R2U() | 200 | 2000 |
| | 3.3 | 5 | 11 | 25 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1HN3R3U() | 200 | 2000 |
| | 4.7 | 5 | 11 | 30 | 0.15 | 0.5 | 2.0 | 5.0 | 2.5 | ECEA1HN4R7U() | 200 | 2000 |
| | 10 | 6.3 | 11.2 | 50 | 0.15 | 0.5 | 2.5 | 5.0 | 2.5 | ECEA1HN100U() | 200 | 2000 |
| | 22 | 8 | 11.5 | 90 | 0.15 | 0.6 | 3.5 | 5.0 | | ECEA1HN220U() | 200 | 1000 |
| | 33 | 8 | 11.5 | 110 | 0.15 | 0.6 | 3.5 | 5.0 | | ECEA1HN330U() | 200 | 1000 |
| | 47 | 10 | 12.5 | 140 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1HN470U() | 200 | 500 |
| | 100 | 10 | 20 | 250 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1HN101U() | 200 | 500 |
| | 220 | 12.5 | 25 | 360 | 0.15 | 0.6 | 5.0 | 5.0 | | ECEA1HN221U() | 200 | 500 |
| | 330 | 16 | 25 | 450 | 0.15 | 0.8 | 7.5 | 7.5 | | ECEA1HN331U() | 100 | 250 |
| | 470 | 16 | 31.5 | 590 | 0.15 | 0.8 | 7.5 | | | ECEA1HN471U | 100 | |

- When requesting taped product, please put the letter "B" or "i" between the "()". Lead wire pitch B=5 mm, 7.5 mm, i=2.5 mm.
- Please refer to the page of "Taping Dimensions".



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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