

Conductive Polymer Hybrid Capacitors

HUJ

HUJ Series

Features

- 150°C, 1,000 hours assured
- · Low ESR and High ripple current
- · RoHS compliant
- · AEC-Q200 compliant

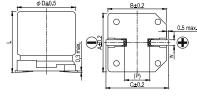


Marking color: Dark Green

Charifications

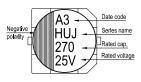
| Specifications | | | | | | | | | | |
|---|---|--|------------------|---|-----|-------|----------------------------|-----|-----------------------|--|
| Items | Performance | | | | | | | | | |
| Category Temperature Range | -55°C ~ +150°C | | | | | | | | | |
| Capacitance Tolerance | ± 20% (at 120 Hz, 20°C) | | | | | | | | | |
| Leakage Current (at 20°C) | $I=0.01CV$ or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in $\mu F,V$ = rated DC working voltage in V | | | | | | | | | |
| Tanδ (at 120 Hz, 20°C) | See Standard Ratings | | | | | | | | | |
| | Impedance ratio shall not exceed the values given in the table below | | | | | | | | | |
| Low Temperature Characteristics (at 100k Hz) | | F | ated Volta | ů | | 63 | | | | |
| | | Impedance Z (-25 | | C) / Z (+20°C) | 1.5 | 1.5 | 1.5 | 1.5 | | |
| | | ratio | Z (-55℃ | C) / Z (+20°C) | 2.0 | 2.0 | 2.0 | 2.0 | | |
| Endurance | ripple current for 1,0 | 00 hours at 150°C. | rent ied when | 1,000 Hrs Within ± 30% of initial value Less than 200% of specified value Less than 200% of specified value Within specified value the capacitors are restored to 20°C after the rated volte | | | | | | |
| Shelf Life Test | * After storage for 1,000 hours at 150 ± 2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the limits specified in Endurance. (With voltage treatment) | | | | | | | | | |
| Resistance to Soldering Heat (Please refer to page 15 for reflowsoldering conditions) | | Capacitance Cl Tanō ESR Leakage Cur | Ü | Within ± 10% of initial value Within specified value Within specified value Within specified value | | | | | | |
| Ripple Current and Frequency Multipliers Multip | | | | 1k ≤ f < 0.3 | | 10k ≦ | 10k ≤ f < 100k 100k 0.6 | | 00k ≤ f < 500k 1.0 | |

Diagram of Dimensions



Marking

| Lead Spacing and Diameter Unit: | | | | | | | | |
|---|----------------|------|------|------|-----------|-----|--|--|
| ϕ D | L | Α | В | С | W | Р | | |
| 8 | 10.0 ± 0.5 | 8.3 | 8.3 | 9.0 | 0.7 ~ 1.1 | 3.1 | | |
| 10 | 10.0 ± 0.5 | 10.3 | 10.3 | 11.0 | 0.7 ~ 1.3 | 4.7 | | |
| The diagram is marking " () " for reference dimension. | | | | | | | | |



Standard Ratings

Dimension: $\phi D \times L(mm)$

Ripple Current: mA/rms at 100k Hz 150°C

| Standard Hattings | | | | | | | | |
|-------------------|---------------|------|----------------|----------------|------|---------------------------|----------------------------|--|
| Rated Voltage | Surge Voltage | | Size | Tanδ | LC | ESR | Rated R. C. | |
| (V) | (V) | (μF) | ϕ D×L(mm) | (120 Hz, 20°C) | (µA) | (mΩ/at 100kHz, 20°C max.) | (mA/rms at 100k Hz, 150°C) | |
| 25V (1E) | 28.8 | 150 | 8 × 10 | 0.14 | 37.5 | 27 | 800 | |
| | | 270 | 10 × 10 | 0.14 | 67.5 | 20 | 1,000 | |
| 35V (1V) | 40.3 | 100 | 8 × 10 | 0.12 | 35.0 | 30 | 770 | |
| | 40.3 | 150 | 10 × 10 | 0.12 | 52.5 | 23 | 950 | |
| 50V (1H) | 57.5 | 56 | 8 × 10 | 0.10 | 28.0 | 35 | 700 | |
| | | 100 | 10 × 10 | 0.10 | 50.0 | 28 | 900 | |
| 63V (1J) | 72.5 | 33 | 8 × 10 | 0.08 | 20.8 | 40 | 650 | |
| | | 56 | 10 × 10 | 0.08 | 35.3 | 30 | 840 | |

Part Numbering System

Regional Tracking Carrier **HUJ Series** 150µF ± 20% 25V $8\phi \times 10L$ Purpose Tape HUJ 151 М 1E TR 0810 <u>s</u> Rated Package Terminal Capacitance Case Size Tolerance Type Type

Note: For more details, please refer to "Part Numbering System" on page 87.

All product specifications in the catalog are subject to change without notice. (Cat. 2025E3)