Lelon

HUJ Series

Features

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



Marking color: Dark Green

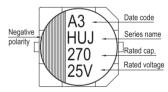
Specifications

| opecifications | | | | | | | | | | | |
|---|--|---------------------|------------|-------------------------------------|-------------|-------|---------------|-----|-----|--|--|
| 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 μ 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) | | | Rated Vol | tage | 25 35 50 63 | | | | | | |
| | | Imped | nce Z (-25 | °C) / Z (+20°C) | 1.5 | 1.5 | 1.5 | 1.5 | | | |
| | | rati | Z (-55 | °C) / Z (+20°C) | 2.0 | 2.0 | 2.0 | 2.0 | | | |
| | | | | | | | | | | | |
| Endurance | | Test | Time | 1.000 Hrs | | | | | | | |
| | | Capacitano | e Change | Within ±30% of initial value | | | | | | | |
| | | Ta | nδ | Less than 200% of specified value | | | | | | | |
| | | ES | R | Less than 200% of specified value | | | | | | | |
| | | Leakage | Current | Within specified value | | | | | | | |
| | * The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated | | | | | | | | | | |
| | ripple current for 1,000 hours at 150°C. | | | | | | | | | | |
| Shelf Life Test | * After storage for 1,000 hours at 150 \pm 2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the | | | | | | | | | | |
| Chair Ello Toot | limits specified in Endurance. (With voltage treatment) | | | | | | | | | | |
| Resistance to Soldering Heat (Please refer to page 15 for reflowsoldering conditions) | Capacitance Change Within ±10% of initial | | | | | | al value | | | | |
| | | Ταηδ | | Within specified value | | | | | | | |
| | | ESR | | Within specified value | | | | | | | |
| | | Leakage Current | | Within specified value | | | | | | | |
| | | | | | | | | | | | |
| Ripple Current and Frequency Multipliers | Frequenc | v (Hz) 120 ≤ f < 1k | | $1k \le f < 10k$ $10k \le f < 100k$ | | 10 | 0k ≤ f < 500k | | | | |
| | Multip |) (· ·—) | 0.1 | 0.3 | | TOR = | 0.6 | | 1.0 | | |
| | Watap | | · · · | 0.0 | | | 0.0 | | | | |

Diagram of Dimensions

Standard Ratings

φ D±0.5 B±0.2 0.5 max. C±0.2



Dimension: ϕ D×L(mm)

Marking

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

| The same of the sa | | | | | | | | | |
|--|----------------------|---------------------|---------------------|------------------------|-------------|------------------------------------|---|--|--|
| Rated Voltage (V) | Surge Voltage (V) | Capacitance (µF) | Size ϕ D×L(mm) | Tanδ (120 Hz, 20°C) | L C (µA) | E S R (mΩ/at 100kHz, 20°C max.) | Rated R. C. (mA/rms at 100k Hz, 150°C) | | |
| 25V (1E) 28.8 | 20.0 | 150 | 8 × 10 | 0.14 | 37.5 | 27 | 800 | | |
| | 270 | 10 × 10 | 0.14 | 67.5 | 20 | 1,000 | | | |
| 35V (1V) 40.3 | 40.2 | 100 | 8 × 10 | 0.12 | 35.0 | 30 | 770 | | |
| | 40.3 | 150 | 10 × 10 | 0.12 | 52.5 | 23 | 950 | | |
| 50V (1H) 57.5 | 57.5 | 57 5 | 8 × 10 | 0.10 | 28.0 | 35 | 700 | | |
| | 57.5 | 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

HUJ Series 150 μ F ±20% 25V Carrier Tape 8 ϕ ×10L General Purpose HUJ 151 M 1E TR - 0810

Series Name | Capacitance | Capacitance | Tolerance | Capacitance | Tolerance | Tolerance

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