ALUMINUM ELECTROLYTIC CAPACITORS

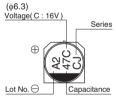
Chip Type, High Reliability. Ø Low temperature ESR specification. series For SMD Long Life Anti-Solvent Feature • Chip type, high temperature range, for +125°C use. Added ESR specification after the test at -40°C (6.3 sizes provide only for the first stage.) • Applicable to automatic mounting machine fed with carrier tape. • Compliant to the RoHS directive (2011/65/EU). Added ESR specification UB CZ CJ Specifications Performance Characteristics -40 to +125°C Category Temperature Range Rated Voltage Range 10 to 50V Rated Capacitance Range 10 to 470µF Capacitance Tolerance ±20% at 120Hz, 20°C After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4(µA), whichever is greater. Leakage Current

| | | | | Measure | emer | nt frequ | uency : 12 | 0Hz at 20° | C | | | | | |
|---------------------------------------|---|-----------------------------|------------------------|---------|---|----------|------------|--|---|--|--|--|--|--|
| Tangent of loss angle (tan δ) | Rated voltage (V) 10 | | 16 | 25 | 25 | | 5 | 50 | | | | | | |
| | tan δ (MAX.) | (.) 0.32 | | 0.21 | 0.21 | | 18 | 0.18 | | | | | | |
| | Measurement frequency : 120Hz | | | | | | | | | | | | | |
| | Rated voltage | e (V) | 10 | 16 | 2 | 25 | 35 | 50 0.18 ency : 120Hz 50 4 change Within ±30% of the initial capacitance 300% or less than the initial specified rent Less than or equal to the initial specified performing voltage treatment based on JIS 0 change Within ±10% of the initial capacitance Less than or equal to the initial specified | | | | | | |
| Stability at Low Temperature | Impedance ratio ZT / Z20 (MAX.) Z | 40°C / Z+20°C | 12 | 8 | | 6 | 4 | 4 | | | | | | |
| Endurance | The specifications lister capacitors are restored applied for 2000 hours | | | | $\begin{array}{c} Capacitance \ change \\ tan \ \delta \\ \\ Leakage \ current \end{array}$ | | | Within ±30% of the initial capacitance value 300% or less than the initial specified value Less than or equal to the initial specified value | | | | | | |
| Shelf Life | After storing the capacitors under no load at 125°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above. | | | | | | | | | | | | | |
| Resistance to soldering heat | The capacitors are kep which is maintained at the characteristic requ are removed from the | apacitors s d at right w | shall meet hen they | | Capacitance change tan δ Leakage current | | | Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value | | | | | | |
| Marking | Black print on the case top. | | | | | | | | | | | | | |

5MAX

Chip Type

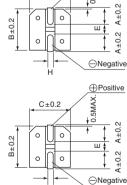
Item

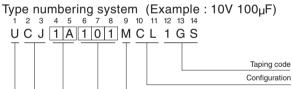




L±0.5

bD ± 0.5





Capacitance tolerance (±20%) Rated capacitance (100µF) Rated voltage (10V) Series name Туре

(\$8 to \$10) Voltage(V:35V) Trade mark Series \oplus citance

Lot No.⊖

C±0.2

| | | | (mm) | |
|----|------------|------------|------------|--|
| ×∟ | 6.3×8.7 | 8×10 | 10×10 | |
| А | 2.4 | 2.9 | 3.2 | |
| В | 6.6 | 8.3 | 10.3 | |
| С | 6.6 | 8.3 | 10.3 | |
| Е | 2.2 | 3.1 | 4.5 | |
| L | 8.7 | 10 | 10 | |
| Н | 0.5 to 0.8 | 0.8 to 1.1 | 0.8 to 1.1 | |
| | | | | |

| Rated | Voltage | • | | | |
|-------|---------|----|----|----|----|
| V | 10 | 16 | 25 | 35 | 50 |
| Code | Α | С | E | V | Н |

Dimensions

| | V 10 | | | 16 | | | 25 | | | | 35 | | | | 50 | | | | | | |
|----------|------|---------|------|-----|-----|---------|-----|-----|-----|---------|-----|-----|-----|-----------|-------|-----|------|-----------------|----------------|-------|----------|
| Cap.(µF) | Code | | 1A | | | 1C | | | 1E | | | | 1V | | | | 1H | | | | |
| 10 | 100 | | | | | | | | | | | | | 6.3×8.7 | 14 | - | 95 | 6.3×8.7 | 14 | - | 95 |
| 22 | 220 | | | | | | | | i | 6.3×8.7 | 14 | - | 95 | 6.3×8.7 | 14 | - | 95 | 6.3×8.7 | 14 | - | 95 |
| 33 | 330 | | | | | | | | 1 | 6.3×8.7 | 14 | - | 95 | 6.3×8.7 ¦ | 14 ¦ | - | ¦ 95 | 8×10 | 2.0 | 6.0 | 200 |
| 47 | 470 | | | | | 6.3×8.7 | 14 | - | 95 | 6.3×8.7 | 14 | - | 95 | 6.3×8.7 | 14 | - | 95 | 10×10 | 1.5 | 4.5 | 330 |
| 100 | 101 | 6.3×8.7 | 14 | - | 95 | 8×10 | 2.0 | 6.0 | 250 | 8 × 10 | 2.0 | 6.0 | 250 | 10×10 | 1.5 | 4.5 | 400 | 10×10 | 1.5 | 4.5 | 330 |
| 220 | 221 | 8×10 | 2.0 | 6.0 | 250 | 10 × 10 | 1.5 | 4.5 | 400 | 10 × 10 | 1.5 | 4.5 | 400 | 10×10 ¦ | 1.5 ¦ | 4.5 | 400 | Case size | l Initial I | after | |
| 330 | 331 | 10 × 10 | 1.5 | 4.5 | 400 | 10 × 10 | 1.5 | 4.5 | 400 | 10 × 10 | 1.5 | 4.5 | 400 | | | | | Case size Initi | | | Rated |
| 470 | 471 | 10 × 10 | 1.5 | 4.5 | 400 | | | | i | | | | | | | | | (mm) | ES | SR | I inppic |

Max. ESR (Ω) at -40°C 100kHz, Rated ripple current (mArms) at 125°C 100kHz

• Taping specifications are given in page 23.

- Recommended land size, soldering by reflow are given in page 18, 19.
- · Please refer to page 3 for the minimum order quantity.

 Frequency coefficient of rated ripple current Frequency 50 Hz 120 Hz 300 Hz 1 kHz 10 kHz or more Coefficient 0.35 0.50 0.64 0.83 1.00

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