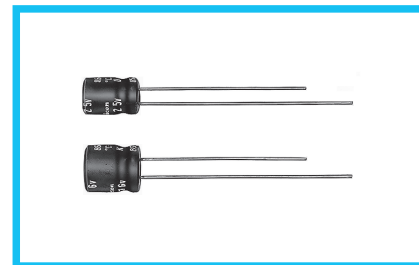


USP

7mmL, Bi-Polarized



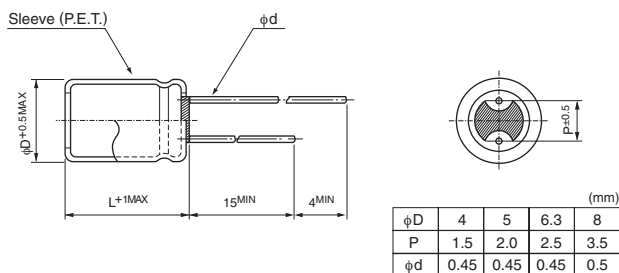
- Bi-polarized series with 7mm height.
- Extended capacitance range by an addition of $\phi 8$ product.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).



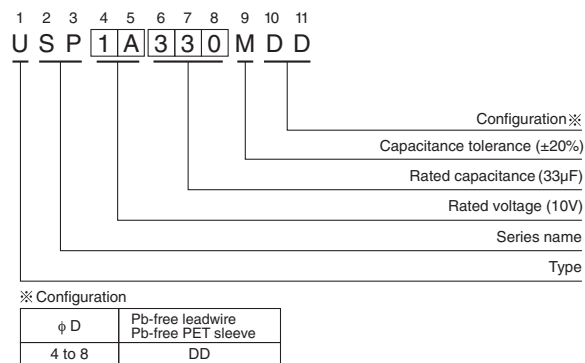
Specifications

| Item | Performance Characteristics | | | | | | | | | | | | |
|-------------------------------|--|---|------|------|------|------|------|--------------------|---|--|--|--|--|
| Category Temperature Range | −40 to +85°C | | | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 50V | | | | | | | | | | | | |
| Rated Capacitance Range | 0.1 to 220μF | | | | | | | | | | | | |
| Capacitance Tolerance | ± 20% at 120Hz, 20°C | | | | | | | | | | | | |
| Leakage Current | After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.05CV or 10 (μA), whichever is greater. | | | | | | | | | | | | |
| Tangent of loss angle (tan δ) | Measurement frequency : 120Hz at 20°C | | | | | | | | | | | | |
| | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | |
| | tan δ (MAX.) | 0.24 | 0.20 | 0.16 | 0.16 | 0.14 | 0.12 | | | | | | |
| Stability at Low Temperature | Measurement frequency : 120 Hz | | | | | | | | | | | | |
| | Rated voltage (V) | | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | |
| | Impedance ratio (MAX.) | Z−25°C / Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | | | | | |
| Z−40°C / Z+20°C | | 8 | 6 | 4 | 4 | 3 | 3 | | | | | | |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C with the polarity inverted every 250 hours. | | | | | | | | | | | | |
| | | | | | | | | Capacitance change | Within ±20% of the initial capacitance value | | | | |
| | | | | | | | | tan δ | 200% or less than the initial specified value | | | | |
| | Leakage current | Less than or equal to the initial specified value | | | | | | | | | | | |
| Shelf Life | After storing the capacitors under no load at 85°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. | | | | | | | | | | | | |
| Marking | Printed with white color letter on black sleeve. | | | | | | | | | | | | |

Radial Lead Type



Type numbering system (Example : 10V 33 μ F)



Dimensions

| V | | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | |
|-----------|------|---------|-----|---------|-----|---------|-----|---------|----|---------|----|---------------------------|-----------------|
| Cap. (μF) | Code | 0J | | 1A | | 1C | | 1E | | 1V | | 1H | |
| 0.1 | 0R1 | | | | | | | | | | | 4 × 7 | 1.0 |
| 0.22 | R22 | | | | | | | | | | | 4 × 7 | 2.3 |
| 0.33 | R33 | | | | | | | | | | | 4 × 7 | 3.5 |
| 0.47 | R47 | | | | | | | | | | | 4 × 7 | 5.0 |
| 1 | 010 | | | | | | | | | | | 4 × 7 | 10 |
| 2.2 | 2R2 | | | | | | | | | | | 4 × 7 | 14 |
| 3.3 | 3R3 | | | | | | | | | | | 5 × 7 | 20 |
| 4.7 | 4R7 | | | | | 4 × 7 | 18 | 5 × 7 | 21 | 4 × 7 | 16 | 6.3 × 7 | 27 |
| 10 | 100 | | | 4 × 7 | 24 | 5 × 7 | 30 | 6.3 × 7 | 35 | 6.3 × 7 | 37 | 8 × 7 | 44 |
| 22 | 220 | | | 5 × 7 | 40 | 6.3 × 7 | 51 | 6.3 × 7 | 53 | 8 × 7 | 62 | 8 × 7 | 65 |
| 33 | 330 | 5 × 7 | 42 | 6.3 × 7 | 56 | 6.3 × 7 | 63 | 8 × 7 | 73 | 8 × 7 | 76 | | |
| 47 | 470 | 6.3 × 7 | 58 | 6.3 × 7 | 67 | 6.3 × 7 | 75 | 8 × 7 | 87 | | | | |
| 100 | 101 | 8 × 7 | 95 | 8 × 7 | 110 | 8 × 7 | 125 | | | | | Case size φ D × L (mm) | Rated ripple |
| 220 | 221 | 8 × 7 | 140 | | | | | | | | | | |

Frequency coefficient of rated ripple current

| Frequency | 50 Hz | 120 Hz | 300 Hz | 1 kHz | 10 kHz or more |
|-------------|-------|--------|--------|-------|----------------|
| Coefficient | 0.70 | 1.00 | 1.17 | 1.36 | 1.50 |

Rated ripple current (mArms) at 85°C 120Hz

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.