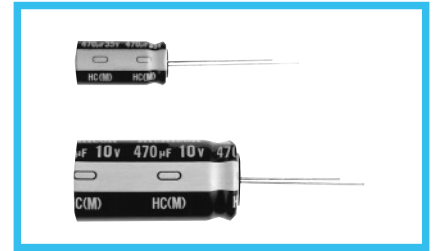


HC Low Impedance series



- Lower impedance than HD series.
- Compliant to the RoHS directive (2002/95/EC).

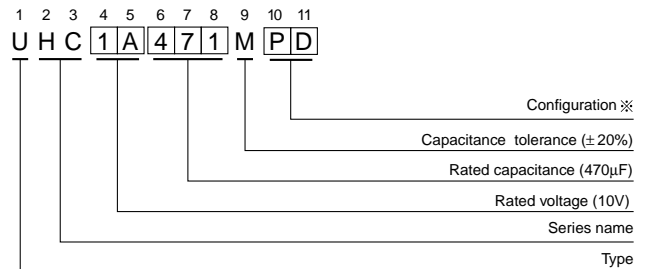
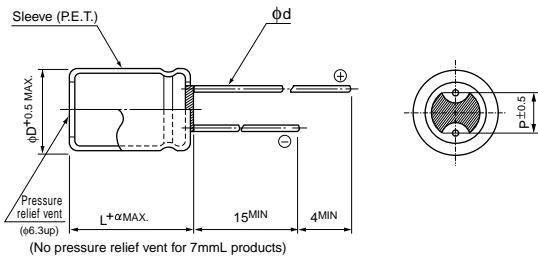


Specifications

| Item | Performance Characteristics | | | | | | | | | | | | | |
|-------------------------------|--|------------------|------|------|------|------|------------|--------------------|---|--|--|--|--|--|
| Category Temperature Range | -40 to +105°C | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 35V | | | | | | | | | | | | | |
| Rated Capacitance Range | 4.7 to 1000μF | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | | | | | | | | | | | | |
| Leakage Current | After 2 minutes' application of rated voltage, leakage current is less than 0.01CV or 3 (μA), whichever is greater. | | | | | | | | | | | | | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 120Hz 20°C | | | | | | | |
| | tan δ (MAX.) | 0.15 | 0.13 | 0.12 | 0.10 | 0.10 | | | | | | | | |
| Stability at Low Temperature | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 120Hz | | | | | | | |
| | Impedance ratio ZT / Z20 (MAX.) | Z=-40°C / Z+20°C | 2 | 2 | 2 | 2 | | 2 | | | | | | |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours (1000 hours for φD=4, 5 and 6.3) at 105°C, the peak voltage shall not exceed the rated voltage. | | | | | | | | | | | | | |
| | | | | | | | | Capacitance change | Within ± 20% of the initial capacitance value | | | | | |
| | | | | | | | | tan δ | 200% or less than the initial specified value | | | | | |
| Marking | Printed with white color letter on black sleeve. | | | | | | | | | | | | | |
| | | | | | | | | Leakage current | Less than or equal to the initial specified value | | | | | |

Radial Lead Type

Type numbering system (Example : 10V 470μF)



| α | (L = 7) | 1.0 |
|---|---------|----------|
| | | (L ≥ 11) |

| | (mm) | | | | |
|----|------|------|---------------|-----|-----|
| φD | 4 | 5 | 6.3 | 8 | 10 |
| P | 1.5 | 2.0 | 2.5 | 3.5 | 5.0 |
| φd | 0.45 | 0.45 | 0.5 (0.45) | 0.6 | 0.6 |

() : Applied to 7mmL products

※ Configuration

| φ D | Pb-free leadwire Pb-free PET sleeve |
|-----------|--|
| 4 | DD |
| 5 | |
| 6.3 (7L) | ED |
| 6.3 (11L) | |
| 8 - 10 | PD |

- Please refer to page 20 about the end seal configuration.

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

• Dimension table in next page.

Standard Ratings

| V (Code) Cap. (μF) / Item Code | | 6.3 (0J) | | | 10 (1A) | | | 16 (1C) | | |
|-----------------------------------|-----|------------------------------|--|---|------------------------------|--|---|------------------------------|--|---|
| | | Case size φ D × L (mm) | Impedance (Ω) MAX. 20°C / 100kHz | Rated ripple (mAmps) 105°C / 100kHz | Case size φ D × L (mm) | Impedance (Ω) MAX. 20°C / 100kHz | Rated ripple (mAmps) 105°C / 100kHz | Case size φ D × L (mm) | Impedance (Ω) MAX. 20°C / 100kHz | Rated ripple (mAmps) 105°C / 100kHz |
| 22 | 220 | | | | 4 × 7 | 0.49 | 230 | 5 × 7 | 0.26 | 350 |
| 33 | 330 | 4 × 7 | 0.48 | 230 | 5 × 7 | 0.26 | 350 | 5 × 7 | 0.26 | 350 |
| 47 | 470 | 5 × 7 | 0.26 | 350 | 5 × 7 | 0.26 | 350 | 6.3 × 7 | 0.15 | 480 |
| 100 | 101 | 6.3 × 7 | 0.15 | 480 | 6.3 × 7 | 0.15 | 480 | 6.3 × 11 | 0.078 | 640 |
| 220 | 221 | 6.3 × 11 | 0.077 | 640 | 8 × 11.5 | 0.044 | 910 | 8 × 11.5 | 0.044 | 910 |
| 330 | 331 | 8 × 11.5 | 0.043 | 910 | 8 × 11.5 | 0.043 | 910 | 10 × 12.5 | 0.030 | 1230 |
| 470 | 471 | 8 × 11.5 | 0.043 | 910 | 10 × 12.5 | 0.030 | 1230 | 10 × 16 | 0.025 | 1650 |
| 1000 | 102 | 10 × 16 | 0.024 | 1650 | | | | | | |

| V (Code) Cap. (μF) / Item Code | | 25 (1E) | | | 35 (1V) | | |
|-----------------------------------|-----|------------------------------|--|---|------------------------------|--|---|
| | | Case size φ D × L (mm) | Impedance (Ω) MAX. 20°C / 100kHz | Rated ripple (mAmps) 105°C / 100kHz | Case size φ D × L (mm) | Impedance (Ω) MAX. 20°C / 100kHz | Rated ripple (mAmps) 105°C / 100kHz |
| 4.7 | 4R7 | | | | 4 × 7 | 0.64 | 230 |
| 10 | 100 | 4 × 7 | 0.52 | 230 | 5 × 7 | 0.33 | 350 |
| 22 | 220 | 5 × 7 | 0.27 | 350 | 6.3 × 7 | 0.17 | 480 |
| 33 | 330 | 6.3 × 7 | 0.16 | 480 | 6.3 × 7 | 0.16 | 480 |
| 47 | 470 | 6.3 × 7 | 0.15 | 480 | 6.3 × 11 | 0.089 | 640 |
| 100 | 101 | 6.3 × 11 | 0.078 | 640 | 8 × 11.5 | 0.048 | 910 |
| 220 | 221 | 10 × 12.5 | 0.031 | 1230 | 10 × 16 | 0.026 | 1650 |
| 330 | 331 | 10 × 16 | 0.026 | 1650 | | | |

Frequency coefficient of rated ripple current

| Cap. (μF) | Frequency | 120Hz | 1kHz | 10kHz | 100kHz |
|-------------|-----------|-------|------|-------|--------|
| 4.7 to 33 | | 0.40 | 0.68 | 0.90 | 1.00 |
| 47 to 330 | | 0.47 | 0.75 | 0.95 | 1.00 |
| 470 to 1000 | | 0.55 | 0.85 | 0.98 | 1.00 |

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