

OCRK Series

Features

- 105°C, 5,000 hours assured
- Ultra low ESR with large permissible ripple current
- · RoHS compliance



Marking color: Blue

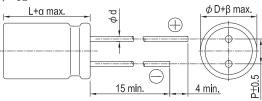
Specifications

| Specifications | | | | | | | | |
|---|---|--|--|---|--------------------------------|--|--|--|
| Items | Performance | | | | | | | |
| Category Temperature Range | -55°C ~ +105°C | | | | | | | |
| Capacitance Tolerance | | (at 120 Hz, 20°C) | | | | | | |
| Leakage Current (at 20°C)* | Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings | | | | | | | |
| Tanδ (at 120 Hz, 20°C) | See Standard Ratings | | | | | | | |
| ESR (at 100k~300k Hz, 20°C) | See Standard Ratings | | | | | | | |
| Endurance | *The above specificat hours at 105°C. | Test Time Capacitance Change Tanδ ESR Leakage Current ions shall be satisfied when the | Within ±20 Less than 150 Less than 150 Within s | 000 Hrs % of initial value % of specified value % of specified value pecified value red to 20°C after the r | ated voltage applied for 5,000 | | | |
| Moisture Resistance | *The above specificat RH for 1,000 hours. | ecting them at 60°C, 90 ~ 95% | | | | | | |
| Resistance to Soldering Heat * (Please refer to page 11 for soldering conditions) | | Capacitance Change Ταηδ ESR Leakage Current | Within ±10 Within s Within s Within s | | | | | |
| Ripple Current and Frequency Multipliers | Frequency Multipli | ` ' | 1k ≤ f < 10k 0.3 | 10k ≤ f < 100k 0.7 | 100k ≤ f < 500k 1.0 | | | |

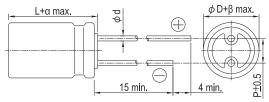
^{*} For any doubt about measured values, measure the leakage current again after the following voltage treatment. Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105 °C.

Diagram of Dimensions





$8\phi \times 11.5L$ and $10\phi \times 12L$



Lead Spacing and Diameter Unit: mm

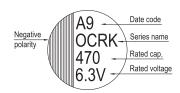
| • | • | | | | |
|----------|-----|------|-----|--|--|
| ϕ D | 6.3 | 8 | 10 | | |
| L | 8 | 11.5 | 12 | | |
| Р | 2.5 | 3.5 | 5.0 | | |
| ϕ d | 0.6 | | | | |
| α | 1.0 | | | | |
| β | 0.5 | | | | |





Rated cap. 10 Rated voltage & Series code





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

Coating Type

| Standard Ratings Ripple Current: mA/rms at 100k Hz, 105°0 | | | | | | | |
|---|---------------|-------------|-----------|----------------|-------|-----------------------------------|----------------------------|
| Rated Volt. | Surge Voltage | Capacitance | Size | Tanδ | LC | ESR | Rated R. C. |
| (V) | (V) | (μF) | φD×L(mm) | (120 Hz, 20°C) | (µA) | (mΩ/at 100k ~ 300k Hz, 20°C max.) | (mA/rms at 100k Hz, 105°C) |
| | | 330 | - 6.3 × 8 | 0.10 | 500 | 7 | 5,600 |
| 2.5V (0E) 2.9 | 2.0 | 470 | | | | | |
| | 2.5 | 560 | | | | | |
| | | 820 | | | | | |
| 4V (0G) | 4.6 | 560 | 6.3 × 8 | 0.10 | 500 | 7 | 5,000 |
| 6.3V (0J) | | 390 | 8 × 11.5 | 0.15 | 491 | 15 | 4,210 |
| | | 470 | 6.3 × 8 | 0.10 | 592 | 8 | 4,700 |
| | 7.2 | | 8 × 11.5 | 0.15 | 592 | 15 | 4,210 |
| | | 560 | 6.3 × 8 | 0.10 | 706 | 8 | 4,700 |
| | | 820 | 10 × 12 | 0.15 | 1,033 | 12 | 4,360 |
| 10V (1A) | 12.0 | 330 | 8 × 11.5 | 0.12 | 660 | 17 | 3,950 |
| | | 560 | 10 × 12 | 0.12 | 1,360 | 16 | 4,720 |
| 16V (1C) | 18.0 | 180 | 8 × 11.5 | 0.12 | 576 | 20 | 3,640 |
| | | 270 | 6.3 × 8 | | 864 | 15 | 3,800 |
| | | 330 | 10 × 12 | | 1,056 | 16 | 4,720 |
| 20V (1D) | 23.0 | 100 | 8 × 11.5 | 0.12 | 400 | 28 | 2,300 |
| | | 330 | 10 × 12 | 0.12 | 1,320 | 26 | 2,800 |
| 25V (1E) | 29.0 | 100 | 8 × 11.5 | 0.12 | 500 | 28 | 2,200 |
| | | 270 | 10 × 12 | 0.12 | 1,350 | 27 | 2,700 |
| 25\/ (4\/) | 40.0 | 68 | 8 × 11.5 | 0.12 | 476 | 29 | 2,200 |
| 35V (1V) | | 150 | 10 × 12 | 0.12 | 1,050 | 28 | 2,600 |

Part Numbering System

Pb-free and PET Gas OCRK Series 470µF ±20% 6.3V **Bulk Package** $8 \phi \times 11.5 L$ Type coating case 471 **0**J 0811 M BK Rated Rubber Lead Wire and Capacitance Lead Configuration Series Name Capacitance Case Size

and Package

Type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 13.

Voltage

Tolerance