OCRK Series

Features

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

Marking color: Blue

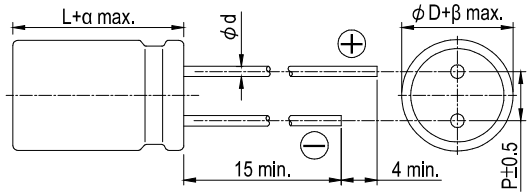
Specifications

Items	Performance
Category Temperature Range	-55℃ ~ +105℃
Capacitance Tolerance	±20% (at 120 Hz, 20℃)
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings
Tanδ (at 120 Hz, 20℃)	See Standard Ratings
ESR (at 100k~300k Hz, 20℃)	See Standard Ratings
Endurance	Test Time: 5,000 Hrs Capacitance Change: Within ±20% of initial value Tanδ: Less than 150% of specified value ESR: Less than 150% of specified value Leakage Current: Within specified value *The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 5,000 hours at 105℃.
Moisture Resistance	Test Time: 1,000 Hrs Capacitance Change: Within ±20% of initial value Tanδ: Less than 150% of specified value ESR: Less than 150% of specified value Leakage Current: Within specified value *The above specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them at 60℃, 90 ~ 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.
Resistance to Soldering Heat * (Please refer to page 11 for soldering conditions)	Capacitance Change: Within ±10% of initial value Tanδ: Within specified value ESR: Within specified value Leakage Current: Within specified value
Ripple Current and Frequency Multipliers	Frequency (Hz): 120 ≦ f < 1k | 1k ≦ f < 10k | 10k ≦ f < 100k | 100k ≦ f < 500k Multiplier: 0.05 | 0.3 | 0.7 | 1.0

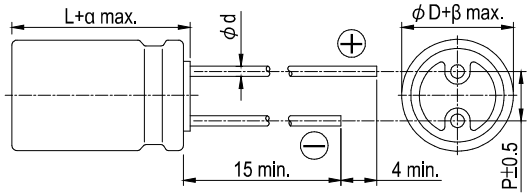
* For any doubt about measured values, measure the leakage current again after the following voltage treatment.
Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105 ℃.

Diagram of Dimensions

6.3φ×8L



8φ×11.5L and 10φ×12L

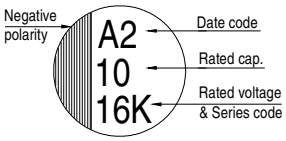


Lead Spacing and Diameter Unit: mm

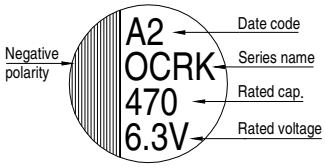
φD	6.3	8	10
L	8	11.5	12
P	2.5	3.5	5.0
φd	0.6		
α	1.0		
β	0.5		

Marking

φD = 6.3



φD = 8 ~ 10



Dimension: φD×L(mm)

Standard Ratings

Ripple Current: mA/rms at 100k Hz, 105℃

Rated Volt. (V)	Surge Voltage (V)	Capacitance (μF)	Size φD×L(mm)	Tanδ (120 Hz, 20℃)	L C (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20℃ max.)	Rated R. C. (mA/rms at 100k Hz, 105℃)
2.5V (0E)	2.9	330	6.3 × 8	0.10	500	7	5,600
		470					
		560					
		820					
4V (0G)	4.6	560	6.3 × 8	0.10	500	7	5,000
6.3V (0J)	7.2	390	8 × 11.5	0.15	491	15	4,210
		470	6.3 × 8	0.10	592	8	4,700
			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
35V (1V)	40.0	68	8 × 11.5	0.12	476	29	2,200
		150	10 × 12	0.12	1,050	28	2,600

Part Numbering System

OCRK Series	470μF	±20%	6.3V	Bulk Package	Gas Type	8φ×11.5L	Pb-free and PET coating case
ORK	**471**	**M**	**0J**	**BK**	**-**	**0811**	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case Size	Lead Wire and Coating Type

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