

OCRK Series

Features

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



Marking color: Blue

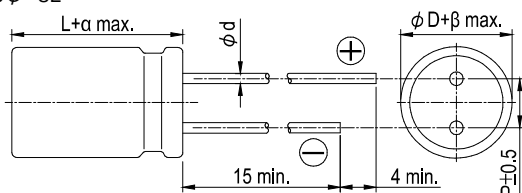
Specifications

Items	Performance				
Category Temperature Range	-55℃ ~ +105℃				
Capacitance Tolerance	±20% (at 120Hz, 20℃)				
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings				
Tanδ (at 120Hz, 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 to 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

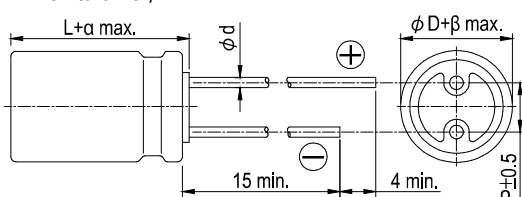
* For any doubt about measured values, measure the leakage current again after the following voltage treatment.
Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105 °C.

Diagram of Dimensions

6.3 φ × 8L



8 φ × 11.5L and 10 φ × 12L



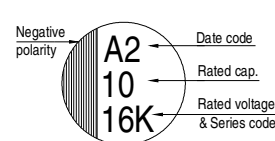
Lead Spacing and Diameter

Unit: mm

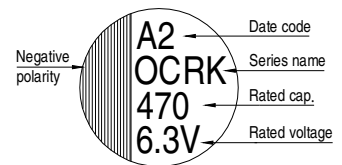
φ D	6.3	8	10
L	8	11.5	12
P	2.5	3.5	5.0
φ d	0.6		
α	1.0		
β	0.5		

Marking

φ D = 6.3



φ D = 8 ~ 10



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

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

Standard Ratings

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

Part Numbering System

OCRK Series	470 μF	$\pm 20\%$	6.3V	Bulk Package	Gas Type	8 $\phi \times 11.5L$	Pb-free and PET coating case
ORK	471	M	0J	BK	-	0811	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & 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.