

ORC Series

Features

- 105°C, 15,000 hours assured
- Ultra low ESR with large permissible ripple current
- · RoHS compliant

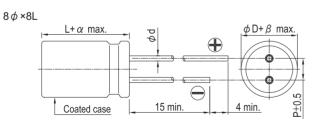


Marking color: Blue

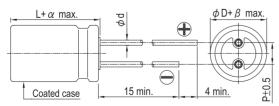
Specifications								
Items	Performance							
Category Temperature Range	-55°C ~ +105°C							
Capacitance Tolerance		(at 120 Hz, 20°						
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings							
Tanδ (at120 Hz, 20°C)	See Standard Ratings							
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings							
· · · · · · · · · · · · · · · · · · ·		Test Time Capacitance Change Tanδ	Within ±20	5,000 Hrs 0% of initial value 0% of specified value				
Endurance		ESR	Less than 150	0% of specified value				
		Leakage Current	Within	specified value				
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 15,00 hours at 105°C.							
		Test Time	1	,000 Hrs				
		Capacitance Change	Within ±20% of initial value					
Maiatura Daniataran		Tanō Less than 150% of specified value						
Moisture Resistance		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°C after subjecting them at 60°C, 90 ~ 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.							
		Capacitance Change Within ±10% of initial value						
Resistance to Soldering Heat * (Please refer to page 18 for soldering conditions)		Ταηδ	Within specified value					
		ESR	Within specified value					
		Leakage Current	Within specified value					
Ripple Current and	Frequenc	$120 \leq f < 1k$	$1k \leq f < 10k$	$10k \leq f < 100k$	$100k \leq f < 500k$			
Frequency Multipliers	Multip	lier 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



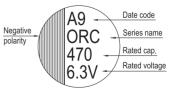
 $8\phi \times 11.5L$ and $10\phi \times 12L$



Lead Spacing and Diameter Unit: mm

φD	8	8	10		
L	8	11.5	12		
Р	3	5.0			
ϕ d	0.6				
α	1.0				
β	0.5				

Marking





Standard R	atinas			Dimension: ϕ D×L(mm) Ripple Current: mA/rms at 100k Hz, 105°C			
Rated Volt. (V)	Surge Voltage (V)	Capacitance (µF)	Size	Tanδ (120 Hz, 20°C)	L C (μΑ)	E S R (mΩ/at 100k ~ 300k Hz, 20°C max.)	Rated R. C. (mA/rms at 100k Hz, 105°C)
2.5V (0E)	2.9	560			500	7	6,100
		820	8 × 8				
		1,000		0.10			
		,	8 × 11.5	-			
		1,500	8 × 11.5		750		
		2,700	10 × 12		1,350	8	5,560
	4.6	560	8 × 8	0.10	448	7	6,100
4V (0G)		680	8 × 11.5		544	7	6,100
		1,000	10 × 12		800	6	6,640
	7.2	470	8 × 8	0.10	592	8	5,700
6.3V(0J)		560	8 × 8		706	8	5,700
0.37(03)		820	10 × 12		1,033	7	6,640
		1,500	10 × 12		1,890	10	5,560
10V (1A)	12.0	390	8 × 11.5	0.10	780	9	5,650
		680	10 × 12		1,360	7	6,100
16V (1C)	18.0	270	8 × 11.5	0.10	864	11	5,080
		330	10 × 12		1,056	10	6,100
		470	10 × 12		1,504	10	6,100

Part Numbering System General ORC Series 470µF ±20% 6.3V Bulk Package Gas Type $8\phi \times 8L$ Purpose ORC 471 Μ **0J** BK 0808 -Lead Configuration and Package Capacitance Rated Rubber Case Size Application Series Name Capacitance . Tolerance Voltage Туре

Note: For more details, please refer to "Part Numbering System" on page 20.