

ORF Series

Features

- 105°C, 20,000 hours assured
- Ultra low ESR with large permissible ripple current
- · RoHS compliance



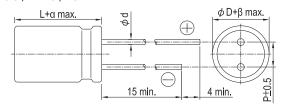
Marking color: Blue

Specifications

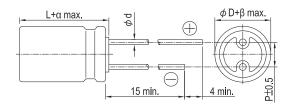
Specifications								
Items	Performance							
Category Temperature Range	-55°C ~ +105°C							
Capacitance Tolerance	±20% (at 120 Hz, 20°C)							
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings							
Tanδ (at120 Hz, 20°C)	See Standard Ratings							
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings							
Endurance	* The above specificati hours at 105°C.	Test Time Capacitance Change Tanō ESR Leakage Current ons shall be satisfied when	Within ±20 Less than 150 Less than 150 Within s	0,000 Hrs 9% of initial value 9% of specified value 9% of specified value specified value red to 20°C after the ra	ted voltage applied for 20,000			
Moisture Resistance		Test Time Capacitance Change Tanδ ESR Leakage Current ons shall be satisfied when eakage current should be to	Within ±20 Less than 150 Less than 150 Within s the capacitors are restor		cting them at 60°C, 90 ~ 95%			
Resistance to Soldering Heat * (Please refer to page 11 for soldering conditions)	·	Capacitance Change Tanδ ESR Leakage Current	Within ±10% of initial value Within specified value Within specified value Within specified value					
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.

Diagram of Dimensions 6.3ϕ and $8 \phi \times 8L$



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



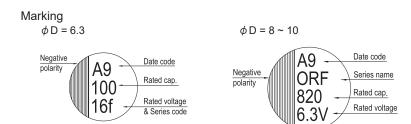
Lead Spacing and Diameter

Unit: mm

ϕ D	6.3			8		10
L	5.5	8	11	8	11.5	12
Р		2.5		3.	5.0	
ϕ d	0.45	0.6	0.5	0.6		
α	0.5	1.0				
β	0.5					
	L P φd	L 5.5 P φd 0.45 α 0.5	L 5.5 8 P 2.5 φd 0.45 0.6 α 0.5	L 5.5 8 11 P 2.5 φd 0.45 0.6 0.5 α 0.5	L 5.5 8 11 8 P 2.5 3. φd 0.45 0.6 0.5 α 0.5 1.0	L 5.5 8 11 8 11.5 P 2.5 3.5 φ d 0.45 0.6 0.5 0.6 α 0.5 1.0

Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105°C.





Standard Ratings

Dimension: ϕ D×L(mm)

Standard Ratings Ripple Current: mA/rms at 10							
Rated Volt. (V)	Surge Voltage (V)	Capacitance (µF)	Size ϕ D×L(mm)	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)
2V (0D)	2.3	1,000	6.3 × 8	0.12	500	5	5,900
2.5V(0E)	2.9	330	-	0.10	500	5	5,900
		470					
		560	6.3 × 8	0.10			
		820					
		1,200		0.12	1,200		
		1,600	8 × 8	0.12	800		6,100
4V(0G)	4.6	470	6.3 × 8	0.10	500	7	5,600
40(00)	4.0	560	6.3 × 8	0.10	500	7	5,600
6.3V(0J)	7.2	820	6.3 × 8	0.10	1,030	8	4,700
16V (1C) 18.0		100	6.3 × 5.5		500	24	2,490
	18.0		6.3 × 11		500	25	2,890
		270	8 × 8		864	10	5,000
			8 × 11.5	0.10	864	11	5,080
		330	8 × 8		1,050	13	4,700
		470	8 × 11.5		1,500	11	5,400
			10 × 12		1,500	10	6,100

Part Numbering System

ORF Series 270 μ F ±20% 16V Bulk Package Gas Type 8 ϕ ×11.5L Pb-free and PET coating case ORF 271 M 1C BK - 0811

<u>1C</u> **ORF** 271 M 0811 Rubber Rated Lead Wire and Capacitance Lead Configuration Capacitance Series Name Case size Tolerance Voltage and Package Type Coating Type

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