ORF Series

Features

SURGE

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



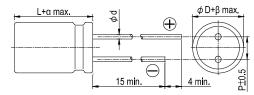
Marking color: Blue

Specifications

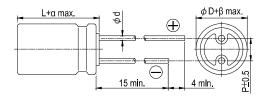
pecifications Items			Dorformanaa					
	Performance							
Category Temperature Range		-55°C ~ +105°C						
Capacitance Tolerance	5	±20% (at 120 Hz, 20°0						
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings							
Tanδ (at120 Hz, 20°C)	See Standard Ratings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

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 $6.3\,\phi$ and $8\,\phi$ ×8L



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



Lead Spacing and Diameter

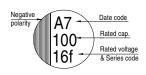
Unit: mm

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

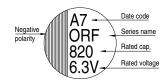
ORF Series

SURGE

 $\phi D = 6.3$



 $\phi D = 8 \sim 10$



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

Standard Ratings Ripple Current: mA/rms						mA/rms at 100k Hz, 105°C		
Rated Volt. (V)	Surge Voltage (V)	Capacitance (µF)	Size φ D×L(mm)	Tanδ (120 Hz, 20°C)	L C (µA)	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)		330		0.10	500	5	5,900	
	2.9	470						
		560	6.3 × 8					
	2.9	820						
		1,200	\neg	0.12	1,200			
		1,600	8 × 8	0.12	800		6,100	
4\/(0C)	4.6	470	6.3 × 8	0.10	500	7	5,600	
4V(0G)	4.6	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) 1:		100	6.3 × 5.5		500	24	2,490	
			6.3 × 11		500	25	2,890	
		270	8 × 8		864	10	5,000	
	18.0		8 × 11.5	0.10	864	11	5,080	
			330	8 × 8	j	1,050	13	4,700
		470	8 × 11.5	8 × 11.5 10 × 12	1,500	11	5,400	
			10 × 12		1,500	10	6,100	

Part Numbering System

ORF Series 270µF

±20%

16V

Bulk Package

Gas Type

 $8\phi \times 11.5L$

Case Size

ORF Series Name

271 Capacitance

М

Capacitance Tolerance

<u>1C</u> Rated Voltage

<u>BK</u> Lead Configuration and Package

Rubber Type

0811

S = Standard
KS = AEC-Q200 Qualified,
Safety Critical Application
LS = AEC-Q200 Qualified, Non-Safety Critical Application