ORF Series

Features

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

Organic Conductive Polymer Capacitors

RoHS compliant



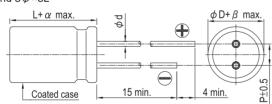
Marking color: Blue

Specifications

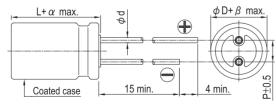
Specifications							
Items	Performance						
Category Temperature Range	-55°C ~ +105°C						
Capacitance Tolerance		±20% (at 120 Hz, 20°C					
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings						
Tanδ (at120 Hz, 20°C)	See Standard Ratings						
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings						
Endurance	* The above specificat 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	1,000 Hrs 1% of initial value 1% of specified value 1% of specified value 1% of specified value 19 specified value 19 ted to 20°C after the ra	ited voltage applied for 20,000		
Moisture Resistance	Test Time 1,000 Hrs Capacitance Change Within ±20% of initial value Tano 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°C after subjecting the RH for 1,000 hours. Leakage current should be tested after voltage treatment*.				cting them at 60°C, 90 ~ 95%		
Resistance to Soldering Heat * (Please refer to page 18 for soldering conditions)		Capacitance Change Tanō 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 $8\phi \times 8L$



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



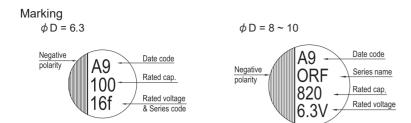
Lead Spacing and Diameter

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		
ϕ d	0.45	0.6	0.5	0.6			
α	0.5	1.0					
β	0.5						

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



Organic Conductive Polymer Capacitors



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

Standard Ratings Ripple Current: mA/rms at 100						` '	
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) 2.9		330		0.40	500	5	5,900
		470					
		560	6.3 × 8	0.10			
	2.9	820					
		1,200	1	0.12	1,200		
		1,600	8 × 8	0.12	800		6,100
4V(0G) 4.6	4.6	470	6.3 × 8	0.10	500	7	5,600
	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	0.10	500	24	2,490
			6.3 × 11		500	25	2,890
		270	8 × 8		864	10	5,000
			8 × 11.5		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

General Bulk Package **ORF** Series 270µF ±20% 16V Gas Type $8 \phi \times 11.5L$ Purpose

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

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