ORA Series

Features

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

Organic Conductive Polymer Capacitors

· RoHS compliant



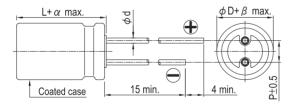
Marking color: Blue

Specifications

Specifications								
Items	Performance							
Category Temperature Range	-55°C ~ +105°C							
Capacitance Tolerance		(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							
Endurance	Test Time 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℃ after the rated volta hours at 105℃.				ted voltage applied for 15,000			
Moisture Resistance	* The above specificat RH for 1,000 hours.	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 Within s Within s					
Ripple Current and Frequency Multipliers	Frequency Multipl	` '	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. Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105°C.

Diagram of Dimensions

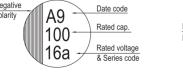


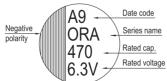
Lead Spa	Unit: mn					
ϕ D	6.3	8	10			
L	11	11 11.5				
Р	2.5	3.5	5.0			
ϕ d	0.5 0.6					
α	1.0					
β	0.5					



Marking









Organic Conductive Polymer Capacitors

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

Standard R	Standard Ratings Ripple Current: mA/rms at 100k Hz, 10							
Rated Volt.	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR	Rated R. C.	
(V)	(V)	(µF)	φD×L(mm)	(120 Hz, 20°C)	(µA)	(mΩ/at 100k ~ 300k Hz, 20°C max.)	(mA/rms at 100k Hz, 105°C)	
2.5V (0E)		390	6.3 × 11	0.12	195	20	3,150	
		680	8 × 11.5	0.08	340	7	5,580	
	2.9	820	8 × 11.5		410	7	5,580	
		1,000	10 × 12		500	6	5,860	
		1,500	10 × 12		750	7	5,860	
4V (0G) 4		270	6.3 × 11	0.12	216	20	3,160	
	4.6	390	6.3 × 11	0.12	312	24	3,300	
	4.0	560	8 × 11.5	0.08	448	7	5,580	
		820	10 × 12	0.08	656	6	5,860	
6.3V (0J)		220	6.3 × 11	0.12	277	20	3,160	
	7.2	330	6.3 × 11	0.12	416	28	3,190	
		390	8 × 11.5	0.08	491	8	5,080	
		470	8 × 11.5		592	7	5,700	
		680	10 × 12		857	7	5,860	
10V (1A)	12.0	47		0.12	94		2,820	
		68	6.3 × 11		136			
		100			200	23		
		150			300			
		270	8 × 11.5	0.08	540	9	4,710	
		470	10 × 12	0.08	940	8	5,650	
16V (1C)	18.0	100	6.3 × 11	0.12	320	25	2,820	

Part Numbering System

General **ORA** Series 470µF ±20% 6.3V Bulk Package 8 φ ×11.5L Gas Type Purpose <u>0J</u> **ORA** <u>471</u> M <u>BK</u> 0811 Lead Configuration Capacitance Rated Rubber Series Name Capacitance Case Size Application

and Package

Type

Voltage

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

Tolerance