

OCRU Series

Features

- 125°C, 1000 ~ 2,000 hours assured
- Ultra low ESR with large permissible ripple current
- · RoHS compliant

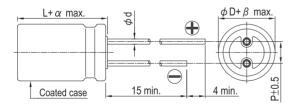


Marking color: Blue

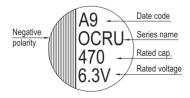
Items			Performance						
Category Temperature Range	-55°C ~ +125°C								
Capacitance Tolerance	±20% (at 120 Hz, 20								
Leakage Current (at 20°C)*	0 11	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings							
Tanδ (at 120 Hz, 20°C)	See Standard Rating	S							
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Rating	See Standard Ratings							
		Test Time Capacitance Change	2,000 Hi	rs for 2.5 ~ 4V; rs for 6.3~ 20V 1% of initial value					
Endurance		Tanõ		% of specified value					
		ESR		% of specified value					
		Leakage Current		pecified value					
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for specified hours at 125°C.								
		Test Time	1,	000 Hrs					
		Capacitance Change Within ±20% of initial value							
Moisture Resistance		Tanδ	Less than 150% of specified value						
Moisture Resistance		ESR	Less than 150% of specified value						
		Leakage Current	Within specified value						
		ations shall be satisfied wher . Leakage current should be			jecting them	at 60°C, 90 ~ 95%			
		Capacitance Change Within ±10% of initial value							
Resistance to Soldering Heat *		Tanō	Within specified value						
(Please refer to page 18 for soldering conditions)		ESR	Within specified value						
		Leakage Current Within specified value							
					4001- < 4				
Pipple Current and	Frequenc	(H_7) 120 $\leq f < 1k$	$1k \leq t \leq 10k$	$10k \le t < 100k$	100K > T	< 500k			
Ripple Current and Frequency Multipliers	Frequence		$\frac{1k \leq f < 10k}{0.3}$	$\frac{10k}{0.7} \leq f < 100k$	100K ≦ 1 1.0	< 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



Marking



Lead Spacing and Diameter

Unit: mm

	-			
φD	8	10		
L	11.5	12		
Р	3.5	5.0		
ϕ d	0.6			
α	1.0			
β	0.5			

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Standard Ratings

Dimension: ϕ D×L(mm) Ripple Current: mA/rms at 100k Hz

Rated Volt. Surge Voltage		Capacitance	Size	Tanδ	LC	ESR	Rated R. C.(mA/rms at 100k Hz)		
(V)	(V)	(μF)	$\phi D \times L(mm)$	(120 Hz, 20°C)	(µA)	(mΩ/at 100k ~ 300k Hz, 20°C max.)	$T \leq 105^{\circ}\!C$	$105^{\circ}C < T \leq 125^{\circ}C$	
2.5V (0E) 2.9	2.0	680	8 × 11.5	0.18	340	13	4,520	1,430	
	2.9	1,200	10 × 12	0.18	600	13	5,440	1,721	
4V (0G) 4.6	4.6	560	8 × 11.5	0.18	448	13	4,520	1,430	
	4.0	1,200	10 × 12	0.18	960	12	5,440	1,721	
6.3V (0J)	7.2	470	8 × 11.5	0.15	592	15	4,210	1,332	
	1.2	820	10 × 12	0.15	1,033	12	5,440	1,721	
10V (1A)	12.0	330	8 × 11.5	0.12	660	16	3,950	1,250	
	12.0	560	10 × 12	0.12	1,120	13	5,230	1,655	
16V (1C)	18.0	180	8 × 11.5	0.12	576	18	3,640	1,151	
	18.0	330	10 × 12	0.12	1,056	16	4,720	1,493	
20V (1D)	23.0	100	8 × 11.5	0.15	400	24	3,320	1,050	
		150	10 × 12	0.15	600	20	4,320	1,367	

Part Numbering System									
OCRU Series	470µF	±20%	6.3V	Bulk Package	Gas Type	8φ×11.5L		General Purpose	
ORU	<u>471</u>	M	<u>0J</u>	BK	-	<u>0811</u>			
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case Size		Application	

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