

OCRU Series

Features

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



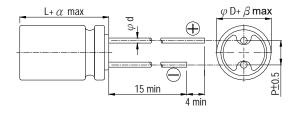
Marking color: Blue

Specifications

Items	Performance								
Category Temperature Range	-55°C ~+125°C								
Capacitance Tolerance	±20% (at 120Hz, 2								
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings								
Tanδ (at 120Hz, 20°C)	See Standard Ratings	i							
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings								
		Test Tin	ne		rs for 2.5 ~ 4V; rs for 6.3~ 20V				
		Capacitance	Change	Within ±20	% of initial value				
Endurance		Tanδ Less than 200% of specified value							
		ESR		Less than 200% of specified value					
		Leakage Cı	ırrent	Within s	specified 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					
Moisture Resistance		Tanδ		Less than 150					
Moisture ivesistance		ESR		Less than 150					
		Leakage Cı	ırrent	Within s					
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C, 90 to 95% RH for 1,000 hours. Leakage current should be tested voltage treatment*.								
Resistance to Soldering Heat * (Please refer to page 9 for soldering conditions)		Capacitance Change		Within ±10					
		Tanδ		Within s					
		ESR		Within specified value					
		Leakage Current		Within specified value					
Pinnle Current 9									
Ripple Current &	Frequency	v (Hz) 120	≦ f < 1k	1k ≦ f < 10k	$10k \le f < 100k$	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.

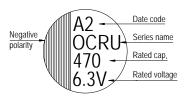
Diagram of Dimensions



Lead Spacing and Diameter

	Unit: mm				
ϕ D	8	10			
L	11.5	12			
Р	3.5	5.0			
ϕ d	0.6				
α	1.0				
β	0.5				

Marking



OCRU

Standard Ratings

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

Ripple Current: mA/rms at 100k Hz

W. V. (V)	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR	Rated R. C.(mA/rms at 100k Hz)	
	(V)	(μF)	ϕ D×L(mm)	(120Hz, 20°C)	(µA)	(mΩ/at 100k ~ 300k Hz, 20°C Max)	T ≤ 105°C	$105^{\circ}\text{C} < \text{T} \leq 125^{\circ}\text{C}$
2.5V (0E)	2.9	680	8 × 11.5	0.18	340	13	4,520	1,430
		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
		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
		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
		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

Pb-free and PET Gas OCRU series 470µF ±20% 6.3V **Bulk Package** 8 φ ×11.5L coating case Type 471 **ORU** M **0J** BK 0811

 ORU
 471
 M
 OJ
 BK
 0811

 Series
 Capacitance
 Capacitance
 Rated Voltage
 Lead Configuration Rubber Type
 Case Size
 Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 11.

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