



## OCR Series

### Features

- 105°C, 2,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliance



Marking color: Blue

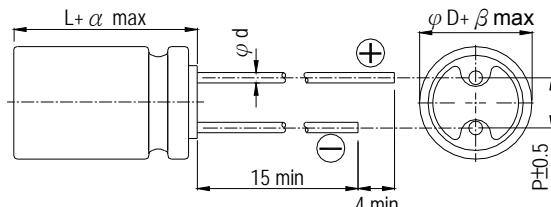
### Specifications

Items	Performance				
Category Temperature Range	-55°C ~ +105°C				
Capacitance Tolerance	±20%	(at 120Hz, 20°C)			
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings				
Dissipation Factor (Tanδ at 120Hz, 20°C)	See Standard Ratings				
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings				
Endurance	Test Time	2,000 Hrs			
	Capacitance Change	Within ±20% of initial value			
	Dissipation Factor	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 the rated voltage applied for 2,000 hours at 105°C.					
Moisture Resistance	Test Time	1,000 Hrs			
	Capacitance Change	Within ±20% of initial value			
	Dissipation Factor	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 them at 60°C, 90 to 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.					
Resistance to Soldering Heat *(Please refer to page 10 for soldering conditions)	Capacitance Change	Within ±10% of initial value			
	Dissipation Factor	Less than 130% of specified value			
	ESR	Less than 130% of specified value			
	Leakage Current	Within specified value			
Ripple Current & Frequency Multipliers	Frequency (Hz)	120 ≤ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k
	Multiplier	0.05	0.3	0.7	1.0

\* For any doubt about measured values, measure the leakage current again after the following voltage treatment.

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

### Diagram of Dimensions



### Lead Spacing and Diameter

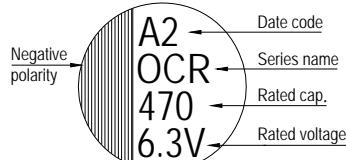
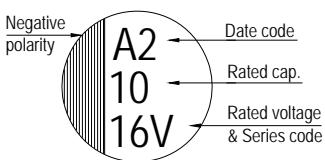
φ D	6.3	6.3	6.3	8	10	10
L	5.5	6.5	11	11.5	10	12.5
P	2.5	2.5	2.5	3.5	5.0	5.0
φ d	0.45			0.6		
α			1.0		1.5	
β				0.5		

Unit: mm

### Marking

φ D = 6.3

φ D = 8 ~ 10





## Standard Ratings

W. V. (V)	Surge Voltage (V)	Capacitance ( $\mu\text{F}$ )	Size $\phi D \times L(\text{mm})$	Tan $\delta$ (120Hz, 20°C)	L C ( $\mu\text{A}$ )	Dimension: $\phi D \times L(\text{mm})$	
						E S R (m $\Omega$ /at 100k ~ 300k Hz, 20°C Max)	Rated R. C. (mA/rms at 100k Hz, 105°C)
2.5V (0E)	2.8	220	6.3 × 5.5	0.12	110	28	2,390
		390	6.3 × 11	0.12	195	18	3,160
		680	8 × 11.5	0.18	340	10	5,230
		1,000	10 × 10	0.18	500	14	4,700
		1,500	10 × 12.5	0.18	750	8	5,500
4V (0G)	4.6	150	6.3 × 5.5	0.12	120	40	1,810
		270	6.3 × 11	0.12	216	15	3,200
		560	8 × 11.5	0.18	448	10	5,230
		1,200	10 × 12.5	0.18	960	8	5,500
6.3V (0J)	7.2	100	6.3 × 5.5	0.12	126	40	1,810
		220	6.3 × 11	0.12	277	18	3,160
		330	6.3 × 6.5	0.12	416	28	2,390
		390	8 × 11.5	0.15	491	12	4,770
		470	8 × 11.5	0.15	592	12	4,770
		820	10 × 12.5	0.15	1,033	10	5,500
10V (1A)	11.5	100	6.3 × 6.5	0.12	200	45	1,700
		220	10 × 10	0.15	440	17	3,950
		330	8 × 11.5	0.12	660	14	4,420
		560	10 × 12.5	0.12	1,360	12	5,300
16V (1C)	18.4	47	6.3 × 5.5	0.10	150	50	1,650
		100	6.3 × 11	0.10	320	22	2,820
		180	8 × 11.5	0.12	576	16	4,360
		330	10 × 10	0.12	1,056	16	4,360
		330	10 × 12.5	0.12	1,056	14	5,050
20V (1D)	23.0	22	6.3 × 5.5	0.10	88	60	1,450
		56	6.3 × 11	0.10	224	25	2,650
		100	8 × 11.5	0.15	400	24	3,320
		100	10 × 10	0.15	400	24	3,320
		150	10 × 12.5	0.15	600	20	4,320
		330	10 × 12.5	0.12	1,320	24	2,800
25V (1E)	28.7	6.8	6.3 × 5.5	0.10	170	80	1,200
		33	8 × 11.5	0.12	165	24	3,320
		56	8 × 11.5	0.12	280	24	3,320
			10 × 12.5	0.12	280	20	4,320
		68	8 × 11.5	0.12	340	24	3,320
		100	10 × 12.5	0.12	500	20	4,320
35V (1V)	40.0	270	10 × 12.5	0.12	1,350	25	2,800
		22	8 × 11.5	0.12	154	50	2,300
		39	8 × 11.5	0.12	273	31	2,100
		47	10 × 12.5	0.12	329	30	3,650
		68	10 × 12.5	0.12	476	28	2,700
50V (1H)	57.5	150	10 × 12.5	0.12	1,050	26	2,700
		27	8 × 11.5	0.12	270	36	2,000
		47	10 × 12.5	0.12	470	31	2,500