OCRZ Series

Features
- 105℃, 2000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliance

Marking color: Blue

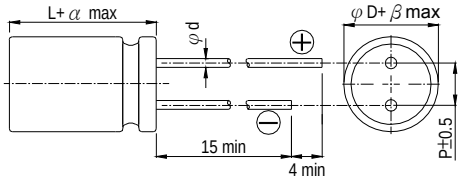
Specifications

Items	Performance
Category Temperature Range	-55℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings
Dissipation Factor (Tanδ at 120Hz, 20℃)	See Standard Ratings
ESR (at 100k ~ 300k Hz, 20℃)	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℃ after the rated voltage applied for 2000 hours at 105℃.
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℃ after subjecting them at 60℃, 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℃.

Diagram of Dimensions

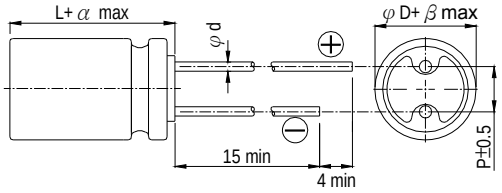
5φ, 6.3φ×6 ~ 8L and 8φ×8L



Lead Spacing and Diameter Unit: mm

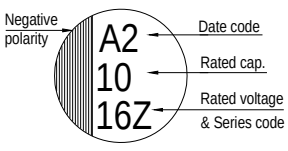
φD	5	6.3	6.3	8	8	10
L	8	6	8	8	12	12.5
P	2.0	2.5	2.5	3.5	3.5	5.0
φd	0.6	0.45	0.6			
α	1.0					1.5
β	0.5					

8φ×12L and 10φ×12.5L

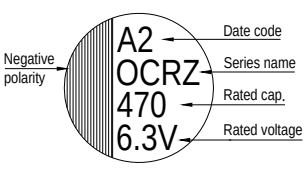


Marking

φD = 6.3



φD = 8 ~ 10



Standard Ratings

Dimension: φD×L(mm)
Ripple Current: mA/rms at 100k Hz, 105℃

W. V. (V)	Surge Voltage (V)	Capacitance (μF)	Size φD×L(mm)	Tanδ (120Hz, 20℃)	LC (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20℃ Max)	Rated R. C. (mA/rms at 100k Hz, 105℃)
2.5V (0E)	2.8	330	6.3 × 8	0.10	500	7	5,600
		390	6.3 × 6*	0.10	500	10	3,900
		470	5 × 8	0.10	500	7	4,200
			8 × 8	0.10	235	7	5,000
		560	5 × 8	0.10	500	7	4,200
			6.3 × 6*	0.10	500	10	4,000
			6.3 × 8	0.10	500	7	5,600
			8 × 8	0.12	280	7	6,200
		820	6.3 × 8	0.10	500	7	5,600
			8 × 8	0.10	410	7	6,200
			8 × 12	0.12	410	7	6,200
		1,000	8 × 8	0.12	500	7	6,200
			8 × 12	0.12	500	7	6,200
			10 × 12.5	0.12	500	7	6,200
		1,200	8 × 8	0.12	600	7	6,200
		1,500	10 × 12.5	0.12	750	7	6,500
		2,700	10 × 12.5	0.12	1,350	7	7,200
4V (0G)	4.6	560	6.3 × 8	0.10	500	7	5,600
			8 × 8	0.10	448	7	6,200
			8 × 12	0.12	448	7	6,200
		820	8 × 8	0.10	656	7	6,200
		1,000	8 × 8	0.10	800	7	6,200
		1,200	8 × 12	0.12	960	7	6,200
			10 × 12.5	0.12	960	7	6,200
		1,500	10 × 12.5	0.12	1,200	7	6,500
		2,200	10 × 12.5	0.12	1,760	8	7,200
6.3V (0J)	7.2	220	8 × 8	0.10	277	10	5,000
		270	5 × 8	0.10	680	8	3,900
		470	6.3 × 8	0.10	592	7	5,600
			8 × 8	0.12	592	7	6,200
			8 × 12	0.12	592	7	6,200
		560	6.3 × 8	0.10	706	7	5,600
			8 × 8	0.10	706	7	6,200
			8 × 12	0.12	706	7	6,200
		820	8 × 8	0.10	1,033	7	6,200
			8 × 12	0.10	1,033	8	5,500
			10 × 12.5	0.12	1,033	7	6,200
		1,000	8 × 8	0.10	1,260	7	6,200
			8 × 12	0.12	1,260	8	5,500
		1,500	10 × 12.5	0.12	1,890	7	6,200
10V (1A)	11.5	390	8 × 12	0.12	780	8	5,000
		470	10 × 12.5	0.12	940	8	6,000
		560	10 × 12.5	0.12	1,120	8	6,000
		820	10 × 12.5	0.12	1,640	8	6,000
16V (1C)	18.4	100	6.3 × 6*	0.10	320	24	2,490
			6.3 × 8	0.10	500	10	4,680
		180	6.3 × 8	0.10	576	10	4,680
			8 × 8	0.10	576	10	5,000
		270	8 × 8	0.10	864	10	5,000
			8 × 12	0.12	864	8	5,000
		330	8 × 8	0.10	1,056	10	5,000
			10 × 12.5	0.12	1,056	8	6,000
		470	8 × 12	0.12	1,504	10	5,400
			10 × 12.5	0.12	1,504	8	6,000

Remark: The case size with " * " of case length is 6.0 mm maximum.