ORG Series

Features

- 105℃, 20,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS compliance

Marking color: Blue

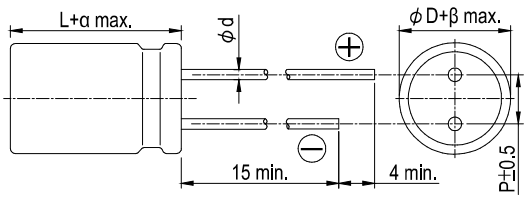
Specifications

Items	Performance
Category Temperature Range	-55℃ ~ +105℃
Capacitance Tolerance	±20% (at 120 Hz, 20℃)
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings
Tanδ (at120 Hz, 20℃)	See Standard Ratings
ESR (at 100k ~ 300k Hz, 20℃)	See Standard Ratings
Endurance	Test Time: 16V: 20,000 Hrs; 20 ~ 35V: 15,000 Hrs Capacitance Change: Within ±20% of initial value Tanδ: 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 20,000 / 15,000 hours at 105℃.
Moisture Resistance	Test Time: 1,000 Hrs Capacitance Change: Within ±20% of initial value Tanδ: 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 ~ 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.
Resistance to Soldering Heat * (Please refer to page 11 for soldering conditions)	Capacitance Change: Within ±10% of initial value Tanδ: Within specified value ESR: Within specified value Leakage Current: Within specified value
Ripple Current and 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: DC rated voltage is applied to the capacitors for 2 hours at 105℃.

Diagram of Dimensions

Fig. 1



Lead Spacing and Diameter Unit: mm

ϕD	6.3		8					10		
L	5.5	8	8	6.5	11.5	16	20	12	16	20
P	2.5		3.5					5.0		
ϕd	0.45	0.6								
α	0.5	1.0	1.0	0.5	1.0	1.5	2.0	1.0	1.5	2.0
β	0.5									
Fig. No.	1				2	3		2	3	

Fig. 2

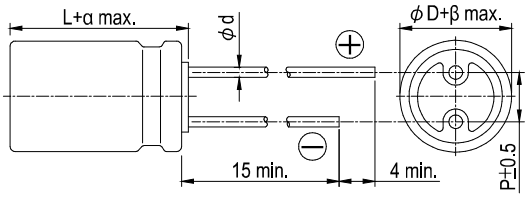
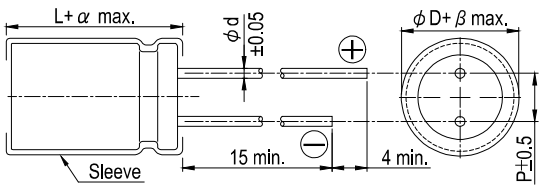


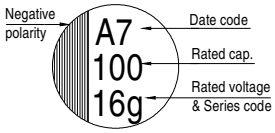
Fig. 3



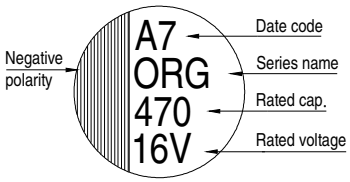
Sleeve & Marking Color: Sapphire Blue & Golden

Marking

ϕD = 6.3



ϕD = 8 ~ 10



Standard Ratings

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

Rated Volt. (V)	Surge Voltage (V)	Capacitance (μF)	Size ϕD×L(mm)	Tanδ (120 Hz, 20℃)	L C (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20℃ max.)	Rated R. C. (mA/rms at 100k Hz, 105℃)
16V (1C)	18.0	100	6.3 × 5.5	0.12	480	20	2,490
		150	6.3 × 5.5		480	20	3,200
		270	6.3 × 8		864	10	5,080
			8 × 6.5		864	22	3,300
		470	8 × 8		1,504	16	4,000
		560	8 × 11.5		1,792	14	4,970
		820	8 × 16		2,624	8	7,000
			10 × 12		2,624	12	5,400
		1,000	8 × 16		3,200	8	7,000
			8 × 20			8	7,500
			10 × 12			12	5,400
		1,200	8 × 20		3,840	8	7,500
			10 × 16		3,840		7,700
		1,500			4,800		
		1,800			4,800		
			10 × 20		5,760		8,100
		2,200	10 × 20		7,040		8,100
20V (1D)	23.0	120	6.3 × 5.5	0.12	480	20	3,200
		180	6.3 × 8		720	18	3,460
		330	8 × 8		1,320	17	3,880
		390	8 × 11.5		1,560	14	4,970
		680	10 × 12		2,720	12	5,400
25V (1E)	29.0	56	6.3 × 5.5	0.12	280	30	2,600
		82	6.3 × 8		410	28	2,780
		100			500		
		120			600		
		180	8 × 8		900	18	3,770
			8 × 11.5		900	16	4,650
		220	8 × 11.5		1,100	16	4,650
		330	10 × 12		1,650	14	5,000
		390	10 × 12		1,950	14	5,000
35V(1V)	40.0	68	8 × 11.5	0.12	476	18	4,380
		120	10 × 12	0.12	840	16	4,670

Part Numbering System

ORG Series	560μF	±20%	16V	Bulk Package	Gas Type	8ϕ×11.5L	Pb-free and PET coating case
ORG	**561**	**M**	**1C**	**BK**	**-**	**0811**	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case size	Lead Wire and Coating Type

Note: For more details, please refer to “Part Numbering System (Radial Type)” on page 13.