

Features

- 105°C, 20,000 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 120 Hz, 20°C)				
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings				
Tanδ (at120 Hz, 20°C)	See Standard Ratings				
ESR (at 100k ~ 300k Hz, 20°C)	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°C.					
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 18 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°C.

Diagram of Dimensions

Fig. 1

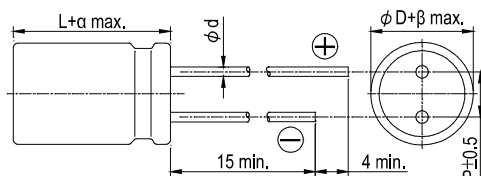
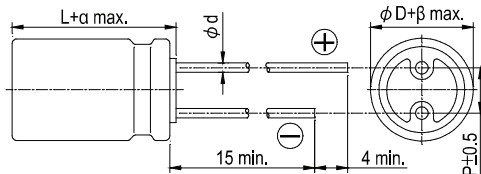


Fig. 2

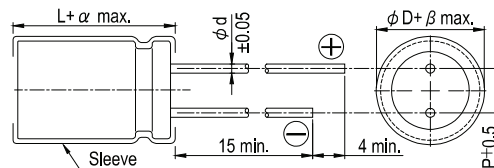


Lead Spacing and Diameter

Unit: mm

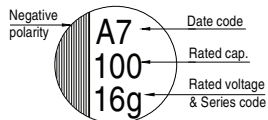
φ D	6.3	8	10
L	5.5	8	12
P	2.5	3.5	5.0
φ d	0.45	0.6	0.6
α	0.5	1.0	1.0
β	0.5	1.5	2.0
Fig. No.	1	2	3

Fig. 3

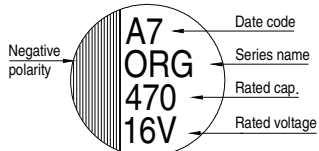


Marking

$\phi D = 6.3$



$\phi D = 8 \sim 10$



Standard Ratings

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

Ripple Current: mA/rms at 100k Hz, 105°C

Standard Ratings				Ripple Current: mA/rms at 100k Hz, 105°C			
Rated Volt. (V)	Surge Voltage (V)	Capacitance (μF)	Size φD×L(mm)	Tanδ (120 Hz, 20°C)	L C (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20°C max.)	Rated R. C. (mA/rms at 100k Hz, 105°C)
16V (1C)	18.0	150	6.3 × 5.5	0.12	480	20	3,200
		270	6.3 × 8		864	10	5,080
		330	6.3 × 8		1,056	10	5,080
		470	8 × 8		1,504	8	5,400
		560	8 × 11.5		1,792	8	6,100
		680	8 × 11.5		2,176	8	6,100
		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 × 12		3,840	12	5,400
		1,500	8 × 20		4,800	8	7,500
			10 × 16		4,800		7,700
		1,800	10 × 16		5,760		7,700
			10 × 20		5,760		8,100
		2,200	10 × 20		7,040		
		2,700	10 × 20		8,640		
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 560 μ F $\pm 20\%$ 16V Bulk Package Gas Type 8 ϕ \times 11.5L

ORG **561** **M** **1C** **BK** - **0811** **XX**
 Series Name Capacitance Capacitance Tolerance Rated Voltage Lead Configuration and Package Rubber Type Case Size

XX
S = Standard
KS = AEC-Q200 Qualified, Safety Critical Application
LS = AEC-Q200 Qualified, Non-Safety Critical Application