

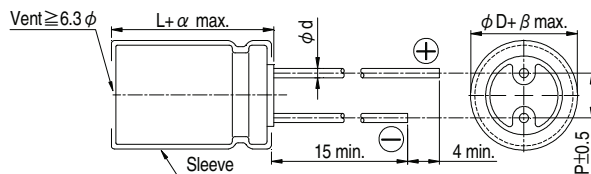
## Features

- 105°C, wide temperature range
- Suitable for high reliability products
- RoHS compliance

## Specifications

Items	Performance																																																
Category Temperature Range	6.3 ~ 63V	100V																																															
	-55°C ~ +105°C	-40°C ~ +105°C																																															
Capacitance Tolerance	±20% (at 120 Hz, 20°C)																																																
Leakage Current (at 20°C)	I = 0.01CV or 3 (µA) whichever is greater (after 2 minutes) Where, C = rated capacitance in µF, V = rated DC working voltage in V																																																
Tanδ (at 120 Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Tanδ (max)</td> <td>0.23</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table>		Rated Voltage	6.3	10	16	25	35	50	63	100	Tanδ (max)	0.23	0.20	0.16	0.14	0.12	0.10	0.09	0.08																													
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Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below.																																																
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## Diagram of Dimensions



## Lead Spacing and Diameter

	Unit: mm						
φ D	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5		0.6		0.8		
α	L < 20: 1.5, L ≥ 20: 2.0						
β	0.5						

### Dimension and Permissible Ripple Current

Dimension:  $\phi D \times L$ (mm)  
Ripple Current: mA/rms at 120 Hz, 105°C

Rated Volt. Cap.( $\mu$ F)	Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
2.2	2R2											5×11	20			5×11	26
3.3	3R3											5×11	30			5×11	31
4.7	4R7											5×11	33	5×11	36	5×11	36
10	100											5×11	50	5×11	54	6.3×11	40
22	220											5×11	78	5×11	64	6.3×11	36
33	330									5×11	85	5×11	90	6.3×11	100	8×11.5	93
47	470							5×11	97	5×11	90	6.3×11	117	6.3×11	129	10×12.5	111
100	101					5×11	110	5×11	120	6.3×11	150	8×11.5	188	10×12.5	235	10×20	144
220	221			5×11	150	6.3×11	180	8×11.5	236	8×11.5	270	10×16	335	10×20	400	12.5×25	183
330	331			6.3×11	200	8×11.5	260	8×11.5	330	10×12.5	350	10×16	410	10×20	490	16×25	183
470	471	6.3×11	230	6.3×11	250	8×11.5	310	10×12.5	380	10×16	460	12.5×20	590	12.5×20	665	16×31.5	183
1,000	102	8×11.5	380	10×12.5	460	10×16	560	10×20	680	12.5×20	830	16×25	1,080	16×25	1,190		
2,200	222	10×16	690	10×20	760	12.5×20	920	12.5×25	1,090	16×25	1,260	16×35.5	1,470				
3,300	332	10×20	840	12.5×20	1,100	12.5×25	1,170	16×25	1,400	16×35.5	1,610	18×35.5	1,650				
4,700	472	12.5×20	1,090	12.5×25	1,260	16×25	1,480	16×31.5	1,710	18×35.5	1,900						
6,800	682	12.5×25	1,460	16×25	1,690	16×31.5	1,930	18×35.5	2,160								
10,000	103	16×25	1,990	16×31.5	2,220	18×31.5	2,330										
22,000	223	18×35.5	2,930	18×40	3,230												

### Part Numbering System

RJA Series    470 $\mu$ F     $\pm$ 20%    6.3V    Bulk Package    Gas Type    6.3  $\phi$  × 11L

**RJA**    **471**    **M**    **0J**    **BK**    -    **0611**    **XX**  
Series Name    Capacitance    Capacitance Tolerance    Rated Voltage    Lead Configuration and Package    Rubber Type    Case Size

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