



## SXJ Series

### Features

- 105°C, 1,000 hours assured
- Low impedance with 5 ~ 7mm height
- RoHS Compliance

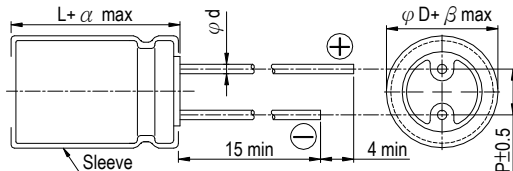


Sleeve & Marking Color: Brown & White

### Specifications

Items	Performance																				
Category Temperature Range	-55°C ~ +105°C																				
Capacitance Tolerance	±20% (at 120Hz, 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 120Hz, 20°C)	<table border="1"> <tr> <th>Rated Voltage</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th>Tanδ (max)</th> <td>0.25</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.13</td> </tr> </table>	Rated Voltage	6.3	10	16	25	35	Tanδ (max)	0.25	0.20	0.17	0.15	0.13								
Rated Voltage	6.3	10	16	25	35																
Tanδ (max)	0.25	0.20	0.17	0.15	0.13																
Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <tr> <th colspan="2">Rated Voltage</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th rowspan="2">Impedance Ratio</th> <th>Z(-25°C)/Z(+20°C)</th> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <th>Z(-55°C)/Z(+20°C)</th> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	Rated Voltage		6.3	10	16	25	35	Impedance Ratio	Z(-25°C)/Z(+20°C)	2	2	2	2	2	Z(-55°C)/Z(+20°C)	4	4	4	4	4
Rated Voltage		6.3	10	16	25	35															
Impedance Ratio	Z(-25°C)/Z(+20°C)	2	2	2	2	2															
	Z(-55°C)/Z(+20°C)	4	4	4	4	4															
Endurance	<table border="1"> <tr> <th>Test Time</th> <td>1,000 Hrs</td> </tr> <tr> <th>Capacitance Change</th> <td>Within ±20% of initial value</td> </tr> <tr> <th>Tanδ</th> <td>Less than 200% of specified value</td> </tr> <tr> <th>Leakage Current</th> <td>Within specified value</td> </tr> </table> <p>* The above Specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 1,000 hours at 105°C.</p>	Test Time	1,000 Hrs	Capacitance Change	Within ±20% of initial value	Tanδ	Less than 200% of specified value	Leakage Current	Within specified value												
Test Time	1,000 Hrs																				
Capacitance Change	Within ±20% of initial value																				
Tanδ	Less than 200% of specified value																				
Leakage Current	Within specified value																				
Shelf Life Test	Test time: 500 hours; other items are the same as those for the Endurance.																				
Ripple Current & Frequency Multipliers	<table border="1"> <tr> <th>Frequency (Hz)</th> <td>60 (50)</td> <td>120</td> <td>300</td> <td>1k</td> <td>10k up</td> </tr> <tr> <th>Multiplier</th> <td>0.35</td> <td>0.5</td> <td>0.64</td> <td>0.83</td> <td>1.0</td> </tr> </table>	Frequency (Hz)	60 (50)	120	300	1k	10k up	Multiplier	0.35	0.5	0.64	0.83	1.0								
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Multiplier	0.35	0.5	0.64	0.83	1.0																

### Diagram of Dimensions



### Lead Spacing and Diameter

Unit: mm

	4	4	5	5	6.3	6.3	8
φD	4	4	5	5	6.3	6.3	8
L	5	7	5	7	5	7	7
P	1.5	1.5	2.0	2.0	2.5	2.5	3.5
φd	0.45	0.45	0.45	0.5	0.45	0.5	0.5
α	1.0						
β	0.5						

Dimension: φD × L(mm)

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

Impedance: Ω/100k Hz, 20°C

### Dimension & Permissible Ripple Current

V.DC	μF	Contents	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
			φD×L	mA	Imp.	φD×L	mA	Imp.	φD×L	mA	Imp.	φD×L	mA	Imp.	φD×L	mA	Imp.
4.7	4R7														4×7	70	3.3
10	100							4×5	50	5.0	4×7	70	3.3	4×5	50	5.0	
22	220		4×5	50	5.0	4×7	70	3.3	5×7	110	1.7	5×7	110	1.7	6.3×7	160	0.8
33	330		5×7	110	1.7	5×7	110	1.7	6.3×7	160	0.8	6.3×7	160	0.8	6.3×5	115	1.3
47	470		5×5	80	2.6	5×5	80	2.6	6.3×5	115	1.3	6.3×5	115	1.3	8×7	200	0.5
100	101		6.3×7	160	0.8	6.3×7	160	0.8	6.3×7	160	0.8	8×7	200	0.5			
150	151		6.3×5	115	1.3	8×7	200	0.5	8×7	200	0.5						
220	221		8×7	200	0.5	8×7	200	0.5									

### Part Numbering System

SXJ series	220μF	±20%	6.3V	Bulk Package	Gas Type	8φ × 7L	Pb-free and PET coating case
<b>SXJ</b>	<b>221</b>	<b>M</b>	<b>0J</b>	<b>BK</b>	-	<b>0807</b>	
Series	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & Package	Rubber Type	Case Size	Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 10.