

## SXJ Series

### Features

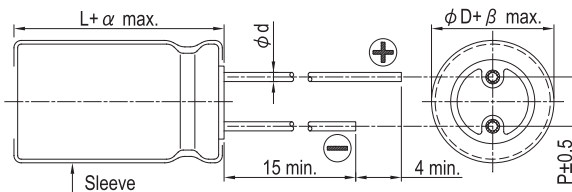
- 105°C, 1,000 hours assured
- Low impedance with 5 ~ 7mm height
- RoHS compliant



### Specifications

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



### Lead Spacing and Diameter

Unit: mm

φD	4	5	6.3	8
L	5	7	5	7
P	1.5	2.0	2.5	3.5
φd	0.45	0.5	0.45	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 and Permissible Ripple Current

Cap.(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	5×7	110	1.7
22	220	4×5	50	5.0	4×7	70	3.3	5×7	110	1.7	5×5	80	2.6	5×5	80	2.6
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	5×5	80	2.6	6.3×7	160	0.8	6.3×7	160	0.8	8×7	200	0.5	6.3×7	160	0.8
150	151	6.3×7	160	0.8	8×7	200	0.5	8×7	200	0.5						
220	221	6.3×5	115	1.3	8×7	200	0.5	6.3×7	160	0.8						

### Part Numbering System

SXJ Series    220μF    ±20%    6.3V    Bulk Package    Gas Type    8φ×7L    General Purpose

**SXJ**    **221**    **M**    **0J**    **BK**    -    **0807**  
 Series Name    Capacitance    Capacitance Tolerance    Rated Voltage    Lead Configuration and Package    Rubber Type    Case Size    Application

Note: For more details, please refer to "Part Numbering System - Radial Type" on page 139.

Radial