

Features

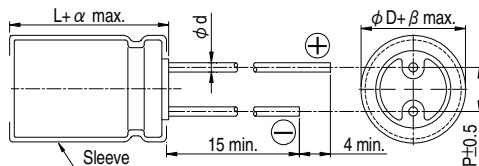
- 105°C, 1,000 hours assured
- Low impedance with 5 ~ 7mm height
- RoHS compliance



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>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

Rated Volt. (Vdc)	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
														4×5	50	5.0
10	100							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	5×5	80	2.6
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
		5×5	80	2.6	5×5	80	2.6	5×5	80	2.6	6.3×5	115	1.3	6.3×5	115	1.3
33	330	5×7	110	1.7	5×7	110	1.7	6.3×7	160	0.8	6.3×7	160	0.8	8×7	200	0.5
		5×5	80	2.6	5×5	80	2.6	6.3×5	115	1.3	6.3×5	115	1.3	6.3×7	160	0.8
47	470	5×7	110	1.7	6.3×7	160	0.8	6.3×7	160	0.8	8×7	200	0.5			
		5×5	80	2.6	6.3×5	115	1.3	6.3×5	115	1.3	6.3×7	160	0.8			
100	101	6.3×7	160	0.8	8×7	200	0.5	8×7	200	0.5						
		6.3×5	115	1.3	6.3×7	160	0.8	6.3×7	160	0.8						
150	151	8×7	200	0.5	8×7	200	0.5									
		6.3×7	160	0.8												
220	221	8×7	200	0.5												

Part Numbering System

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

SXJ **221** **M** **0J** **BK** - **0807** **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