



SJA Series

Features

- 105°C, 2,000 hours assured
- High temperature category range, with 7mm height
- RoHS Compliance

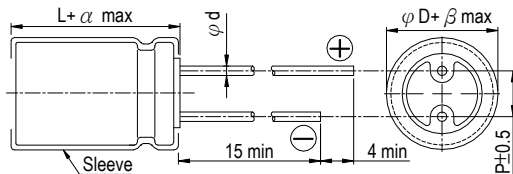


Sleeve & Marking Color: Brown & White

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"> <thead> <tr> <th>Rated Voltage</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>Tanδ (max)</td> <td>0.35</td> <td>0.23</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table>	Rated Voltage	4	6.3	10	16	25	35	50	63	Tanδ (max)	0.35	0.23	0.20	0.17	0.15	0.12	0.10	0.10											
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Low Temperature Characteristics (at 120Hz)	<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>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage		4	6.3	10	16	25	35	50	63	Impedance Ratio	Z(-25°C)/Z(+20°C)	6	4	3	3	2	2	2	2	Z(-55°C)/Z(+20°C)	12	10	8	6	4	4	4	3
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Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance.																													
Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th rowspan="3">Cap.(μF)</th> <th colspan="6">Freq.(Hz)</th> </tr> <tr> <th>60 (50)</th> <th>120</th> <th>500</th> <th>1k</th> <th>10k up</th> <th></th> </tr> </thead> <tbody> <tr> <td>Under 47</td> <td>0.75</td> <td>1.00</td> <td>1.20</td> <td>1.30</td> <td>1.45</td> <td></td> </tr> <tr> <td>100 to 470</td> <td>0.88</td> <td>1.00</td> <td>1.10</td> <td>1.15</td> <td>1.20</td> <td></td> </tr> </tbody> </table>	Cap.(μF)	Freq.(Hz)						60 (50)	120	500	1k	10k up		Under 47	0.75	1.00	1.20	1.30	1.45		100 to 470	0.88	1.00	1.10	1.15	1.20			
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Diagram of Dimensions



Lead Spacing and Diameter

Unit: mm

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

Dimension & Permissible Ripple Current

Dimension: φD×L(mm)

Ripple Current: mA/rms at 120 Hz, 105°C

V. DC	μF	Contents	4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)	
			φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
1	010																	
2.2	2R2														4×7	10	4×7	11
3.3	3R3														4×7	15	4×7	17
4.7	4R7														4×7	18	4×7	21
10	100														5×7	23	5×7	26
22	220														6.3×7	34	6.3×7	40
33	330	4×7	32	4×7	32	4×7	32	5×7	39	5×7	41	6.3×7	47	6.3×7	53	8×7	70	
47	470	4×7	38	4×7	38	5×7	47	5×7	43	6.3×7	53	8×7	71	8×7	76			
100	101	5×7	61	6.3×7	75	6.3×7	80	6.3×7	59	6.3×7	65	8×7	83	8×7	85			
220	221	6.3×7	90	6.3×7	99	8×7	140	8×7	146									
330	331	8×7	156	8×7	156	8×7	160											
470	471	8×7	180	8×7	180													

Part Numbering System

SJA series	470μF	±20%	6.3V	Bulk Package	Gas Type	8φ×7L	Pb-free and PET coating case
SJA	471	M	0J	BK	-	0807	
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.