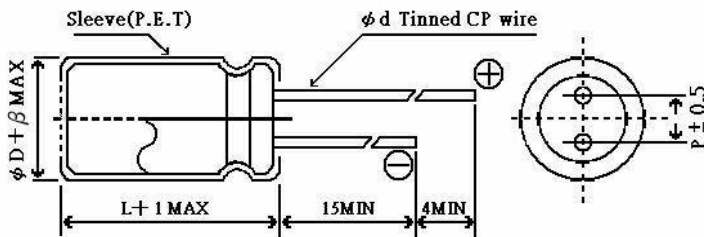


ST series • Wide temperature range of $-40\sim 105^{\circ}\text{C}$, with 7mm height.

SPECIFICATIONS

Item	Performance Characteristics																					
Operating Temperature Range	$-40\sim 105^{\circ}\text{C}$																					
Voltage Range	6.3V~50V																					
Capacitance Range	0.1~220 μF																					
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C																					
Tan δ	Measured at 120Hz, 20°C																					
	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ (MAX.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	Tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10							
Rated Voltage (V)	6.3	10	16	25	35	50																
Tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10																
Leakage Current	Measured at 120Hz, 20°C																					
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3~50</td> </tr> <tr> <td>Leakage Current</td> <td>After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or $3\ \mu\text{A}$, whichever is greater.</td> </tr> </table>	Rated voltage (V)	6.3~50	Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or $3\ \mu\text{A}$, whichever is greater.																	
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Stability at Low Temperature	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Impedance Ratio</td> <td>Z-25°C/Z-20°C</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT/z20 (MAX.)</td> <td>Z-40°C/Z-20°C</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	Impedance Ratio	Z- 25°C /Z- 20°C	3	2	2	2	2	ZT/z20 (MAX.)	Z- 40°C /Z- 20°C	6	5	4	3	3
	Rated Voltage(V)	6.3	10	16	25	35	50															
Impedance Ratio	Z- 25°C /Z- 20°C	3	2	2	2	2																
ZT/z20 (MAX.)	Z- 40°C /Z- 20°C	6	5	4	3	3																
Load Life	After 1000 hours' application of rated voltage at 105°C , capacitors meet the characteristics requirements listed at right.																					
	Capacitance Change	Within $\pm 25\%$ of initial value ($\leq 16\text{V}$) Within $\pm 20\%$ of initial value ($\geq 25\text{V}$)																				
	Tan δ	Not exceeding 200% of initial specified value																				
Shelf Life	After storing capacitors under no load at 105°C for 1000 hours, they will meet the specified value for endurance characteristics listed above.																					
	Leakage Current	Not exceeding Initial specified value																				

RADIAL LEAD TYPE



ϕD	4	5	6.3
P	1.5	2	2.5
ϕd	0.45	0.45	0.45
β	0.5	0.5	0.5

Allowable Ripple Current VS. Ambient Temperature

Ambient temp. ($^{\circ}\text{C}$)	$\sim +70$	+85	+105
Coefficient	1.48	1.3	1.0

Frequency Coefficient of Allowable Ripple Current

Frequency	120Hz	300Hz	1KHz	10KHz
Coefficient	1.00	1.17	1.36	1.50

DIMENSIONS

DxL (mm)

Cap(μF)	W.V. S.V.	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)	
			8		13		20		32		44		63
0.1	R10											4x7	1.0
0.22	R22											4x7	2.3
0.33	R33											4x7	3.5
0.47	R47											4x7	5.0
1	1R0											4x7	10
2.2	2R2											4x7	19
3.3	3R3											4x7	24
4.7	4R7					4x7	24			4x7	24	4x7	24
10	100					4x7	29	4x7	26			6.3x7	44
22	220	4x7	34					6.3x7	51	6.3x7	57	6.3x7	51
33	330					6.3x7	57	6.3x7	63				
47	470			6.3x7	59	6.3x7	68	6.3x7	77				
100	101	6.3x7	77	6.3x7	93	6.3x7	98						
150	151	6.3x7	106										
220	221	6.3x7	129									Case size	Allowable Ripple

Allowable Ripple (mA rms) at 105°C 120Hz