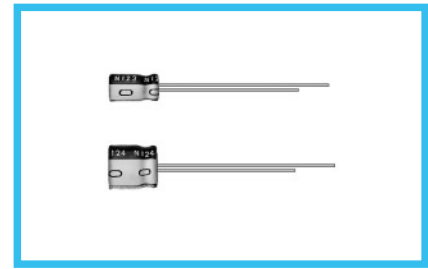


SF 7mmL, Low Impedance series



- Low impedance over wide temperature range of -55 to $+105^{\circ}\text{C}$, with 7mm height.
- Compliant to the RoHS directive (2002/95/EC).

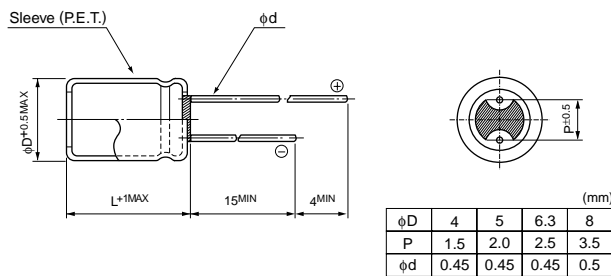
SF ← Low Impedance ST



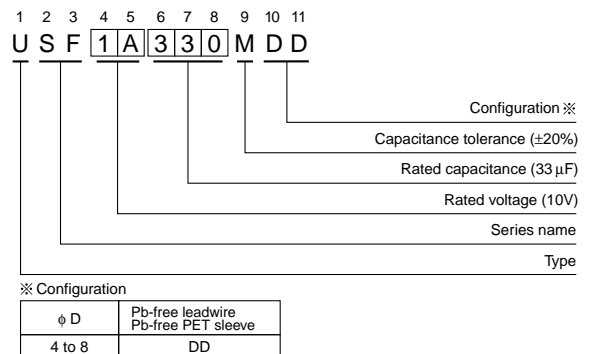
Specifications

Item	Performance Characteristics																				
Category Temperature Range	-55 to $+105^{\circ}\text{C}$																				
Rated Voltage Range	6.3 to 35V																				
Rated Capacitance Range	6.8 to 220 μF																				
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C																				
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3(μA), whichever is greater.																				
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz, Temperature : 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> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	tan δ (MAX.)	0.18	0.16	0.14	0.12	0.12								
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tan δ (MAX.)	0.18	0.16	0.14	0.12	0.12																
Stability at Low Temperature	Measurement frequency : 120Hz																				
	<table border="1"> <tr> <td colspan="2">Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Impedance ratio</td> <td>Z-25°C / Z$+20^{\circ}\text{C}$</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT / Z20 (MAX.)</td> <td>Z-55°C / Z$+20^{\circ}\text{C}$</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage (V)		6.3	10	16	25	35	Impedance ratio	Z -25°C / Z $+20^{\circ}\text{C}$	2	2	2	2	2	ZT / Z20 (MAX.)	Z -55°C / Z $+20^{\circ}\text{C}$	3	3	3	3
Rated voltage (V)		6.3	10	16	25	35															
Impedance ratio	Z -25°C / Z $+20^{\circ}\text{C}$	2	2	2	2	2															
ZT / Z20 (MAX.)	Z -55°C / Z $+20^{\circ}\text{C}$	3	3	3	3	3															
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C .																				
	<table border="1"> <tr> <td>Capacitance change</td> <td>Within $\pm 20\%$ of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	Capacitance change	Within $\pm 20\%$ of the initial capacitance value	tan δ	200% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value														
Capacitance change	Within $\pm 20\%$ of the initial capacitance value																				
tan δ	200% or less than the initial specified value																				
Leakage current	Less than or equal to the initial specified value																				
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C , they shall meet the specified values for the endurance characteristics listed above.																				
Marking	Printed with white color letter on dark brown sleeve.																				

Radial Lead Type



Type numbering system (Example : 10V 33 μF)



Dimensions

Cap. (μF)	Code	V		6.3			10			16			25			35			
		Code	0J				1A			1C			1E			1V			
6.8	6R8																4 × 7	3.3	70
10	100																5 × 7	1.7	110
15	150								4 × 7	3.3	70						6.3 × 7	0.8	160
22	220						4 × 7	3.3	70	5 × 7	1.7	110	5 × 7	1.7	110		6.3 × 7	0.8	160
33	330	5 × 7	1.7	110	5 × 7	1.7	110	6.3 × 7	0.8	160	6.3 × 7	0.8	160	8 × 7	0.5	200	8 × 7	0.5	200
47	470	5 × 7	1.7	110	6.3 × 7	0.8	160	6.3 × 7	0.8	160	8 × 7	0.5	200						
68	680	6.3 × 7	0.8	160	6.3 × 7	0.8	160	8 × 7	0.5	200	8 × 7	0.5	200						
100	101	6.3 × 7	0.8	160	8 × 7	0.5	200	8 × 7	0.5	200									
150	151	8 × 7	0.5	200	8 × 7	0.5	200												
220	221	8 × 7	0.5	200															

Max. Impedance (Ω) at 20°C 100kHz
Rated ripple current (mA rms) at 105°C 100kHz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

CAT.8100Y