

ALUMINUM ELECTROLYTIC CAPACITORS

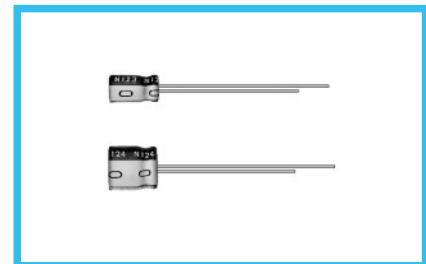
nichicon

SF 7mmL, Low Impedance
series



- Low impedance over wide temperature range of -55 to +105°C, with 7mm height.
- Compliant to the RoHS directive (2002/95/EC).

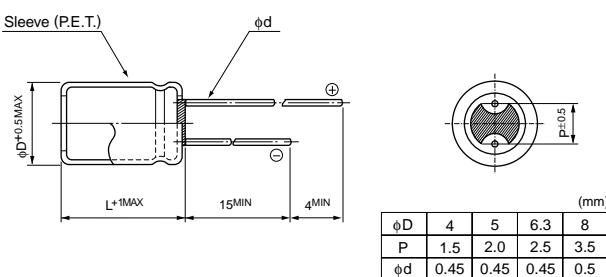
SF ← Low Impedance ST



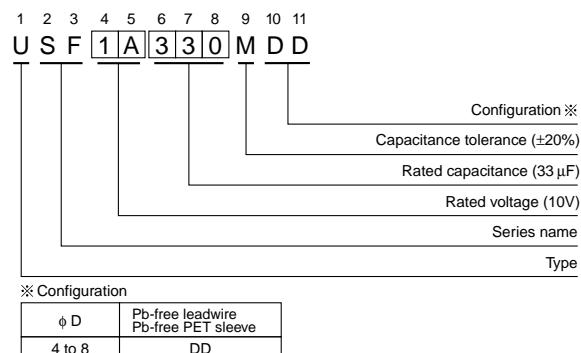
■ Specifications

Item	Performance Characteristics																							
Category Temperature Range	-55 to +105°C																							
Rated Voltage Range	6.3 to 35V																							
Rated Capacitance Range	6.8 to 220μF																							
Capacitance Tolerance	±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)	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <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> </tbody> </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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Endurance	<p>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.</p> <table border="1"> <thead> <tr> <th>Capacitance change</th> <th>Within ±20% of the initial capacitance value</th> </tr> </thead> <tbody> <tr> <th>tan δ</th> <td>200% or less than the initial specified value</td> </tr> <tr> <th>Leakage current</th> <td>Less than or equal to the initial specified value</td> </tr> </tbody> </table>						Capacitance change	Within ±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												
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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 33μF)



■ Dimensions

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

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