

ALUMINUM ELECTROLYTIC CAPACITORS

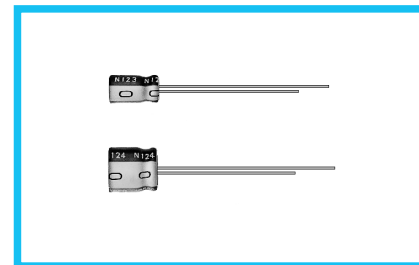
nichicon

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 (2011/65/EU).

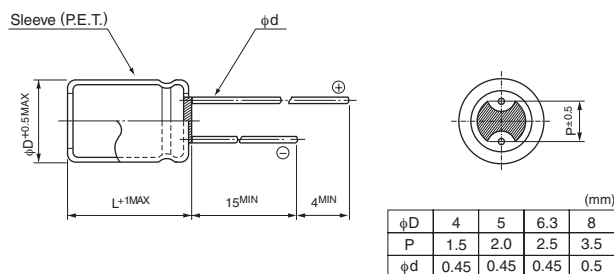
SF ← Low Impedance **ST**



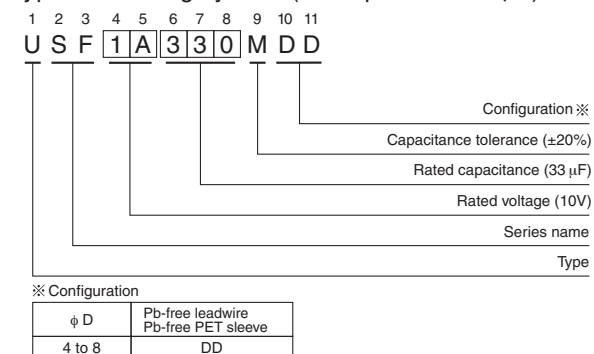
Specifications

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 at 20°C, 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										
	Rated voltage (V)	6.3	10	16	25	35					
	tan δ (MAX.)	0.18	0.16	0.14	0.12	0.12					
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)		6.3	10	16	25	35				
	Impedance ratio	Z-25°C / Z+20°C	2	2	2	2	2				
	ZT / Z20 (MAX.)	Z-55°C / Z+20°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.										
							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								
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)	V	6.3			10			16			25			35		
		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	5 × 7	1.7	110	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
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												
														Case size φ D × L (mm)	Impe- dance	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.8100D