

ALUMINUM ELECTROLYTIC CAPACITORS

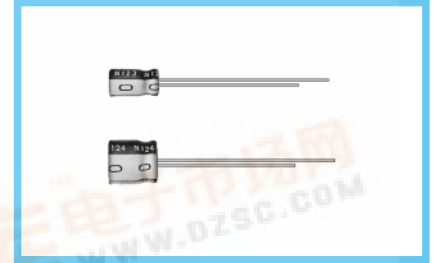
nichicon

SF 7mmL, Low Impedance series



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

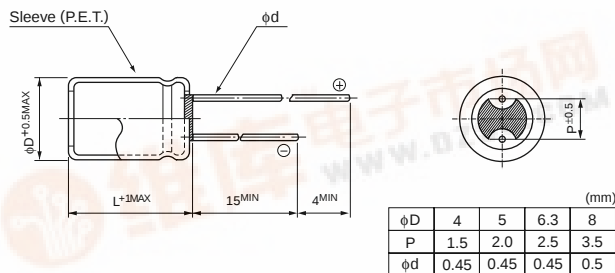
SF Low Impedance ST



Specifications

Item	Performance Characteristics						
Category Temperature Range	-55 ~ +105°C						
Rated Voltage Range	6.3 ~ 35V						
Rated Capacitance Range	6.8 ~ 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.						
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 ZT / Z20 (MAX.)	Z-25°C / Z+20°C	2	2	2	2	2
		Z-55°C / Z+20°C	3	3	3	3	3
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.			Capacitance change		Within ±20% of initial value	
				tan δ		200% or less of initial specified value	
				Leakage current		Initial specified value or less	
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.						
Marking	Printed with white color letter on dark brown sleeve.						

Radial Lead Type

Type numbering system (Example : 10V 33 μF)

1	2	3	4	5	6	7	8	9	10	11
U	S	F	1	A	3	3	0	M	D	D
									Configuration ※	
									Capacitance tolerance (±20%)	
									Rated Capacitance (33 μF)	
									Rated voltage (10V)	
									Series name	
									Type	
※ Configuration										
φ D		Pb-free leadwire Pb-free PET sleeve								
4 ~ 8		DD								

Dimensions

V		6.3			10			16			25			35		
Cap. (μF)	Code	0J			1A			1C			1E			1V		
6.8	6R8													4 × 7	3.3	70
10	100										4 × 7	3.3	70	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							Case size φD × L (mm)	Impe- dance	Rated ripple
220	221	8 × 7	0.5	200												

Max. Impedance (Ω) at 20°C 100kHz
Rated Ripple (mArms) at 105°C 100kHz

Frequency coefficient of rated ripple current

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

Please refer to page 21, 22, 23 about the formed or taped product spec