

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

ST series

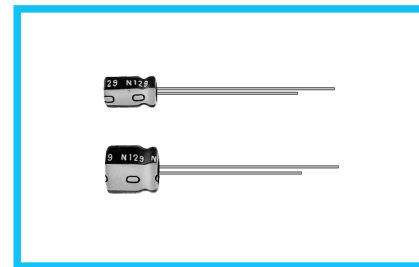
7mmL, Wide Temperature Range



- Wide temperature range of -55 to +105°C, with 7mm height.
- Compliant to the RoHS directive (2011/65/EU).

ST

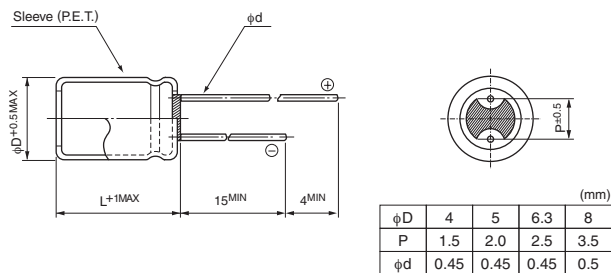
High
Temperature
SA



Specifications

Item	Performance Characteristics							
Category Temperature Range	-55 to +105°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	0.1 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 at 20°C							
	Rated voltage (V)	6.3	10	16	25	35	50	
	tan δ (MAX.)	0.24	0.21	0.18	0.15	0.13	0.12	
Stability at Low Temperature	Measurement frequency : 120 Hz							
	Rated voltage (V)		6.3	10	16	25	35	50
	Impedance ratio	Z-25°C / Z+20°C	3	2	2	2	2	2
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	6	5	4	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 ±25% of the initial capacitance value (16V or less) Within ±20% of the initial capacitance value (25V or more)	
					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 black sleeve.							

Radial Lead Type



Type numbering system (Example : 10V 33μF)

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

Dimensions

Cap.(μF)	V	6.3	10	16	25	35	50
Code	0J	1A	1C	1E	1V	1H	
0.1	0R1						4 × 7 1.0
0.22	R22						4 × 7 2.3
0.33	R33						4 × 7 3.5
0.47	R47						4 × 7 5.0
1	010						4 × 7 10
2.2	2R2						4 × 7 19
3.3	3R3						4 × 7 24
4.7	4R7					4 × 7 24	5 × 7 29
10	100			4 × 7 29	5 × 7 33	5 × 7 36	6.3 × 7 44
22	220	4 × 7 34	5 × 7 38	5 × 7 44	6.3 × 7 51	6.3 × 7 57	8 × 7 65
33	330	5 × 7 42	5 × 7 47	6.3 × 7 57	6.3 × 7 63	8 × 7 72	
47	470	5 × 7 50	6.3 × 7 59	6.3 × 7 68	8 × 7 78		
100	101	6.3 × 7 77	8 × 7 96	8 × 7 107			
220	221	8 × 7 130	8 × 7 140				
							Case size φD × L (mm)
							Rated ripple

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

Rated ripple current 120Hz
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