

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

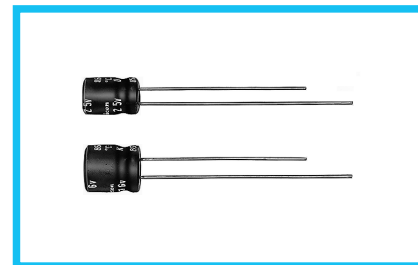
SP series

7mmL, Bi-Polarized



- Bi-polarized series with 7mm height.
- Extended capacitance range by an addition of $\phi 8$ product.
- Compliant to the RoHS directive (2011/65/EU).

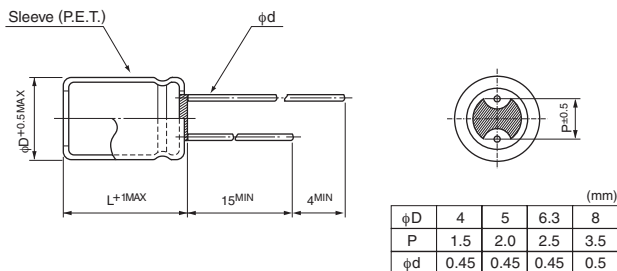
SP ← Bi-polarized **SA**



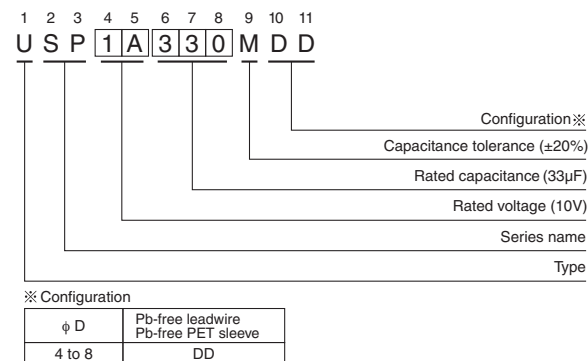
Specifications

Item	Performance Characteristics													
Category Temperature Range	−40 to +85°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 0.05CV or 10 (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	0.20	0.16	0.16	0.14	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	4	3	2	2	2	2						
	ZT / Z20 (MAX.)	Z−40°C / Z+20°C	8	6	4	4	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 2000 hours at 85°C with the polarity inverted every 250 hours.													
								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 85°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 33 μ F)



Dimensions

V		6.3		10		16		25		35		50	
Cap.(μF)	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	14
3.3	3R3									4 × 7	16	5 × 7	20
4.7	4R7					4 × 7	18	5 × 7	21	5 × 7	22	6.3 × 7	27
10	100			4 × 7	24	5 × 7	30	6.3 × 7	35	6.3 × 7	37	8 × 7	44
22	220			5 × 7	40	6.3 × 7	51	6.3 × 7	53	8 × 7	62	8 × 7	65
33	330	5 × 7	42	6.3 × 7	56	6.3 × 7	63	8 × 7	73	8 × 7	76		
47	470	6.3 × 7	58	6.3 × 7	67	6.3 × 7	75	8 × 7	87				
100	101	8 × 7	95	8 × 7	110	8 × 7	125					Case size Φ D × L (mm)	Rated ripple
220	221	8 × 7	140										

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 (mA rms) at 85°C 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