ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



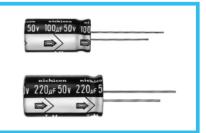


• Ideally suited for timer circuits.

- Excellent leakage current stability, even subjected to load or no load at high temperature for a long time.
- Compliant to the RoHS directive (2002/95/EC).

Products which are scheduled to be discontinued. Not recommended for new designs

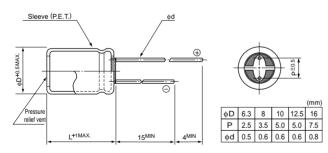




Specifications

Item	Performance Characteristics								
Category Temperature Range	−40 to +85°C								
Rated Voltage Range	10 to 50V								
Rated Capacitance Range	1 to 470µF								
Capacitance Tolerance	±20% (M) (±10% (K) semi-standard) at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage, leakage current is 0.001CV+1 (µA) or less.								
Tangent of loss angle $(\tan \delta)$	Measurement frequency : 120Hz at 20°C								
	Rated voltage (V)	10	16	2	25	50			
	tan δ (MAX.)	0.17	0.13	0	10	0.08]		
	Measurement frequency : 120Hz								
	Rated voltage (V)		10	16	25	50			
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	2	2	1.5	1.5			
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	4	3	2	2			
	-					1			
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.				Capacitance change		Within ±10% of the initial capacitance value		
				tan δ			150% or less than the initial specified value		
				Leakag	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



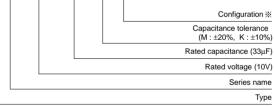
• Please refer to page 20 about the end seal configulation.

Dimensions $\phi D \times L (m)$								
Cap.	V	10	16	25	50			
(µF)	Code	1A	1C	1E	1H			
1	010				6.3×11			
2.2	2R2				6.3×11			
3.3	3R3			6.3×11	6.3×11			
4.7	4R7			6.3×11	8×11.5			
10	100		6.3×11	8×11.5	10×12.5			
22	220	6.3×11	8×11.5	10×12.5	10×16			
33	330	8×11.5	10×12.5	10×16	10×20			
47	470	8×11.5	10×12.5	10×16	12.5×20			
100	101	10×16	10×20	12.5×20	12.5×25			
220	221	10×20	12.5×25	16×25	16×31.5			
330	331	12.5×25	16×25	16×25				
470	471	12.5×25	16×25	16×31.5				

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

Type numbering system (Example : 10V 33_µF)





*Configuration

. Configuration				
φD	Pb-free leadwire Pb-free PET sleeve			
6.3	ED			
8 • 10	PD			
12.5 • 16	HD			