

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UAS

Wide Temperature Range, Miniature Type Permissible
Abnormal Voltage



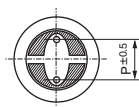
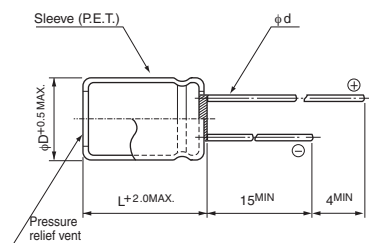
- Improved safety feature for abnormally excessive voltage.
- High ripple current product.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics				
Category Temperature Range	-40 to +105°C				
Rated Voltage Range	200V, 400V				
Rated Capacitance Range	4.7 to 330μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is 0.04CV+100 (μA) or less.				
Tangent of loss angle (tan δ)	Rated voltage (V)	200	400	Measurement frequency:120Hz at 20°C	
	tan δ (MAX.)	0.15	0.15		
Stability at Low Temperature	Rated voltage (V)		200	400	Measurement frequency : 120Hz
	Impedance ratio ZT / Z20 (MAX.)		3	8	
			6	10	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 105°C, the peak voltage shall not exceed the rated voltage.			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 leaving capacitors under no load at 105°C for 1000 hours they shall meet the specified values for the endurance characteristics listed above.				
Safety Performance	The pressure relief vent will operate in normal conditions, with no dangerous conditons such as flames, ignitions or dispersion of pieces of the capacitor and / or case.				
	voltage (V)		Test conditions		
	200		Limited DC current		Test Voltage
	400		4A (5A : 330μF) 2A (4A : 100μF or more)		300VDC and 375VDC 500VDC and 600VDC
Marking	Printed with white color letter on dark brown sleeve.				

Radial Lead Type



	φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5	
φd	0.6	0.6	0.8	0.8	

※ In case L>25 for φ12.5 (D) case sizes, lead diameter φ0.8 (d) will be applied.

- Please refer to page 20 about the end seal configuration.

Type numbering system (Example : 200V 220µF)

1	2	3	4	5	6	7	8	9	10	11	12
U	A	S	2	D	2	2	1	M	H	D	
Series name			Rated voltage (200V)			Rated capacitance (220μF)			Capacitance tolerance (±20%)		
Configuration ※			Size code			Type					

φ D	Pb-free leadwire Pb-free PET sleeve
10	PD
12.5 to 18	HD

Dimensions

Cap.(µF) Code		V φD	200 (2D)								400 (2G)							
			φ10		φ12.5		φ16		φ18		φ10		φ12.5		φ16		φ18	
4.7	4R7										10 × 9	60						
22	220												12.5 × 20	165				
27	270												12.5 × 25	200				
33	330		10 × 20	160											16 × 20	225		
39	390														16 × 25	255	▲18 × 20	255
47	470		10 × 25	195	▲12.5 × 20	195									16 × 25	290	▲18 × 20	280
56	560				12.5 × 20	210									16 × 31.5	340	▲18 × 25	320
68	680				12.5 × 25	320									16 × 35.5	385	▲18 × 25	360
82	820				12.5 × 25	360									16 × 40	435	▲18 × 31.5	430
100	101				12.5 × 31.5	430	▲16 × 20	430									18 × 35.5	490
120	121																18 × 40	540
150	151						16 × 25	460	▲18 × 20	460								
180	181						16 × 31.5	600	▲18 × 25	600								
220	221								18 × 31.5	710								
270	271								18 × 35.5	890							Case size φD×L (mm)	Rated ripple
330	331								18 × 40	910								

Frequency coefficient of rated ripple current

Rated ripple current (mA rms) at 105°C 120Hz

Frequency	50, 60Hz	120Hz	300Hz	1kHz	10kHz or more
Coefficient	0.80	1.00	1.25	1.40	1.60

▲ : In case of low profile type, 6 will be put at 12th digit of type numbering system.

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.8100F

Mouser Electronics

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