ALUMINUM ELECTROLYTIC CAPACITORS

• Improved safety feature for abnormally excessive voltage.

• Compliant to the RoHS directive (2002/95/EC).



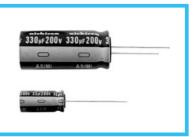


• High ripple current product.

Wide Temperature Range, Miniature Type Permissible Abnormal Voltage

G
Smaller

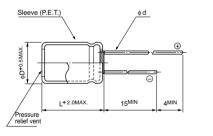




Specifications

Item	Performance Characteristics						
Category Temperature Range	-40 to +105°C						
Rated Voltage Range	200V						
Rated Capacitance Range	33 to 330µF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 1 minute's application of rated voltage, leakage current is 0.04CV+100 (µA) or less.						
Tangent of loss angle (tan $\delta)$	Rated voltage (V) 200 tan δ (MAX.) 0.15						
	Rated voltage (V)		200	Measurement fre	equency : 120Hz		
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.) Z-2	5°C / Z+20°C	3				
		0°C / Z+20°C	6				
Endurance	ripple current is applied for 2000 hours at 105°C. the peak			Capacitance change tan δ Leakage current	Within ±20% of the initial capacitance value 200% or less than the initial specified value 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.						
	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.						
Safety Performance	veltage (V)		Test conditions				
	voltage (V)	Limited DC current			Test Voltage		
	200		4A (5A :	330µF)	300VDC and 375VDC		
Marking	Printed with white color letter on dark brown sleeve.						

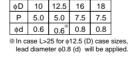
Radial Lead Type



• Please refer to page 20 about the end

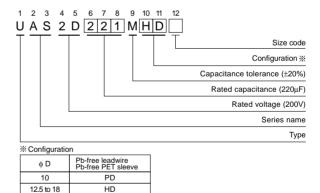
seal configulation.





(mm)

Type numbering system (Example : 200V 220µF)



Dimensions

	V	200 (2D)							
Cap.(µF)	ode ^{øD}	¢10			φ16		φ 1 8		
33	330	10×20	160				1	Case size $\phi D \times L$ (mm)	Rated ripple
47	470	10×25	195	▲12.5×20	195				1
56	560		1	12.5×20	210				
68	680			12.5×25	320				
82	820		1	12.5×25	360		1		1
100	101		1	12.5×31.5	430	▲ 16 × 20	430		1
150	151		1			16×25	460	▲ 18×20	460
180	181		1			16×31.5	600	▲ 18×25	600
220	221		1				1	18×31.5	710
270	271		1				1	18 imes 35.5	890
330	331						·	18×40	910

Rated ripple current (mArms) at 105°C 120Hz

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

• Frequency coefficient of rated ripple current

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

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