

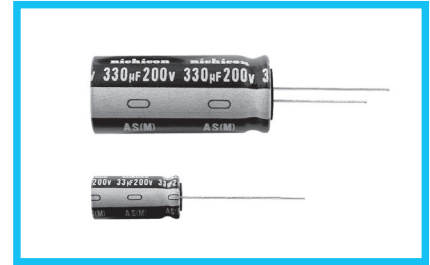
ALUMINUM ELECTROLYTIC CAPACITORS

UAS

Wide Temperature Range, Miniature Type Permissible
Abnormal Voltage



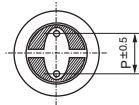
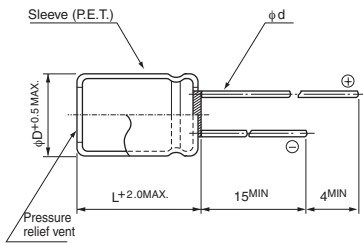
- Improved safety feature for abnormally excessive voltage.
- High ripple current product.
- Compliant to the RoHS directive (2011/65/EU).



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
	tan δ (MAX.)	0.15	0.15
	Measurement frequency: 120Hz at 20°C		
Stability at Low Temperature	Rated voltage (V)	200	400
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	Z-40°C / Z+20°C
		3	8
		6	10
	Measurement frequency : 120Hz		
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 conditions such as flames, ignitions or dispersion of pieces of the capacitor and / or case.		
	voltage (V)	Test conditions	
		Limited DC current	Test Voltage
	200	4A (5A : 330µF)	300VDC and 375VDC
	400	2A (4A : 100µF or more)	500VDC and 600VDC
Marking	Printed with white color letter on dark brown sleeve.		

Radial Lead Type

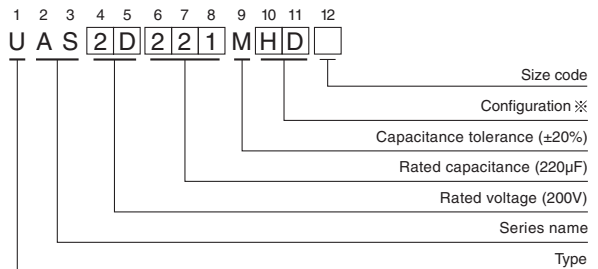


	(mm)			
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.6 [※]	0.8	0.8

※ 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)



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

Dimensions

Cap. (µF)	Code	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
39	390								16×25
47	470	10×25	195	▲12.5×20	195				16×25
56	560			12.5×20	210				▲18×20
68	680			12.5×25	320				▲18×20
82	820			12.5×25	360				▲18×25
100	101			12.5×31.5	430	▲16×20	430		▲18×25
120	121								18×35.5
150	151								18×40
180	181			16×25	460	▲18×20	460		
220	221			16×31.5	600	▲18×25	600		
270	271					18×31.5	710		
330	331					18×35.5	890		
						18×40	910		

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

▲ 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.

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

Mouser Electronics

Authorized Distributor

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Nichicon:

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[UAS2D820MHD12](#) [UAS2D101MHD12](#) [UAS2D101MHD16](#) [UAS2D151MHD16](#) [UAS2D151MHD18](#) [UAS2D181MHD16](#)
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