# ALUMINUM ELECTROLYTIC CAPACITORS

# nichicon



High Voltage, Miniature-sized



- High ripple current.
- Load life of 2000 hours at 105°C.
- Suited for ballast applications.
- Compliant to the RoHS directive (2011/65/EU).





#### Specifications

Item	Performance Characteristics							
Category Temperature Range	-25 to +105°C							
Rated Voltage Range	400 to 450V							
Rated Capacitance Range	27 to 220µF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated vo	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.04CV+100 (µA).						
Tangent of loss angle (tan $\delta)$	Measurement frequency : 120Hz at 20°C   Rated voltage (V) 400 420 450   tan δ (MAX.) 0.15 0.20 0.20							
Stability at Low Temperature	Rated voltage (V) Impedance ratio ZT / Z20 (MAX.) Z-25°C / Z+20	400	nent freque 420 8	ency : 120Hz 450 8				
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.			Capacitan tan δ Leakage c	0	Within $\pm 20\%$ 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 storing the capacitors under no load at 105°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 dark brown sleeve.							

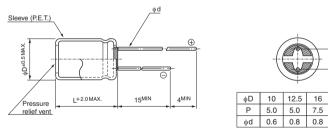
(mm)

18

7.5

0.8

## Radial Lead Type



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

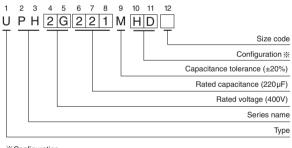
## Dimensions

V		400		420		450	
Cap Code		2G		W6		2W	
27	270					10×31.5	300
33	330	10×31.5	330	10×31.5	320		
47	470					12.5×31.5	430
56	560	$12.5 \times 31.5$	470	12.5×31.5	460	$12.5 \times 35.5$	490
68	680	12.5×35.5	540			12.5×40	560
82	820	12.5×40	620			16×31.5	640
100	101	16×31.5	710	16×31.5	690	16×35.5	730
120	121	16×35.5	800	16×35.5	780	16×40	820
120				▲18×31.5	800	<b>▲</b> 18×31.5	800
150	151	16×40	920	18×35.5	920	18×40	970
		▲18×31.5	890				
180	181	18×40	1060	18×40	1040	18×46	1090
220	221	18×46	1200			Case size <sub>\$\$\$</sub> \$	Rated ripple

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

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

#### Type numbering system (Example : 400V 220µF)



*Configuration						
φD	Pb-free leadwire Pb-free PET sleeve					
10	PD					
12.5 to 18	HD					

#### • Frequency coefficient of rated ripple current

Fre	quency	60Hz	120Hz	500Hz	1kHz	10kHz or more
Coe	efficient	0.80	1.00	1.25	1.40	1.50

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

