# ALUMINUM ELECTROLYTIC CAPACITORS

## nichicon





- 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 voltage at 20°C, leakage current is not more than 0.04CV+100 (µA).						
Tangent of loss angle (tan $\delta)$		requency 20 20	v : 120Hz a 450 0.20	)	20°C		
Stability at Low Temperature		easureme 400 8	ent freque 420 8	ncy : 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.			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 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	
Сар	Code	2G		W6		2W	
27	270					10×31.5	300
33	330	10×31.5	330	10×31.5	320		
47	470					$12.5 \times 31.5$	430
56	560	$12.5 \times 31.5$	470	$12.5 \times 31.5$	460	$12.5 \times 35.5$	490
68	680	$12.5 \times 35.5$	540			$12.5 \times 40$	560
82	820	$12.5 \times 40$	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	121	10 x 33.5	800	▲18×31.5	800	16×31.5 16×35.5 16×40 ▲18×31.5 18×40	800
150	151	16×40	920	18×35.5	920	18×40	970
150		▲18×31.5	890	10×35.5			
180	181	18×40	1060	18×40	1040	18×46	1090
220	221	18×46	1200			Case size $\phi D \times L(mm)$	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

F	requency	60Hz	120Hz	500Hz	1kHz	10kHz or more
С	Coefficient	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.