

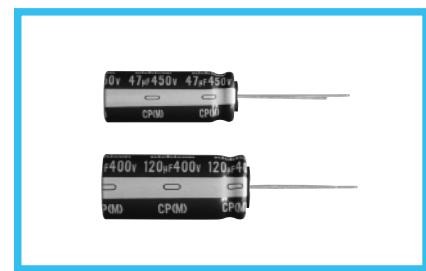
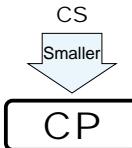
ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

CP

High Voltage, Miniature sized, Long Life Assurance

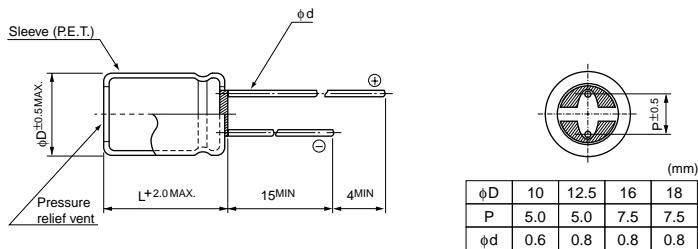
- High ripple current.
- Load life of 10000 hours at 105°C.
- Suited for ballast applications.
- Compliant to the RoHS directive (2011/65/EU).



■ Specifications

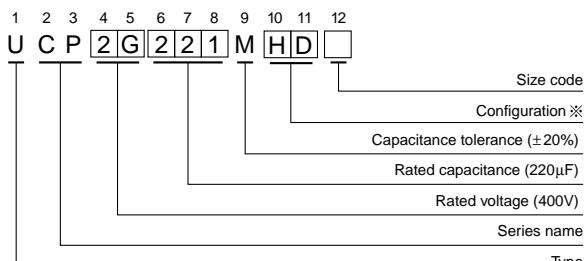
Item	Performance Characteristics						
Category Temperature Range	-25 to +105°C						
Rated Voltage Range	400 to 450V						
Rated Capacitance Range	27 to 220μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 1 minutes' application of rated voltage, leakage current is not more than $I=0.04CV+100$ (μA).						
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C						
	Rated voltage (V)	400	420	450			
Stability at Low Temperature	tan δ (MAX.)	0.24	0.24	0.24			
	Measurement frequency : 120Hz						
	Rated voltage (V)		400	420			
Endurance	Impedance ratio (MAX.)		Z-25°C / Z+20°C	8			
			8	8			
			8	8			
Shelf Life	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 10000 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				
Marking	Leakage current		Less than or equal to the initial specified value				
	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.						
	Printed with white color letter on dark brown sleeve.						

■ Radial Lead Type



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

Type numbering system (Example : 400V 220μF)



※ Configuration

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

■ Dimensions

Cap	Code	V	400		420		450	
			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	12.5×31.5	470	12.5×31.5	460	12.5×35.5	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	
				$\blacktriangle 18 \times 31.5$	800	$\blacktriangle 18 \times 31.5$	800	
150	151	16×40	920	18×35.5	920	18×40	970	
		$\blacktriangle 18 \times 31.5$	890					
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

- Frequency coefficient of rated ripple current

Frequency	60Hz	120Hz	500Hz	1kHz	10kHz or more
Coefficient	0.80	1.00	1.25	1.40	1.50

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

▲: In this case, 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.8100C