

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

CA series

Miniature Sized, High Ripple Current, Long Life



Smaller

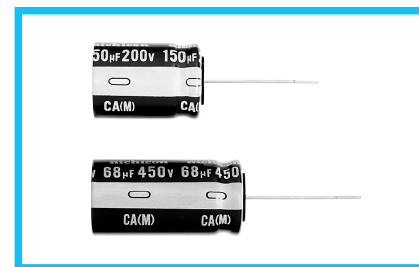
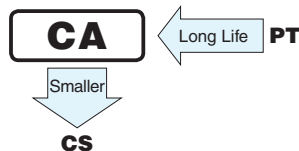


Long Life



High Ripple Current

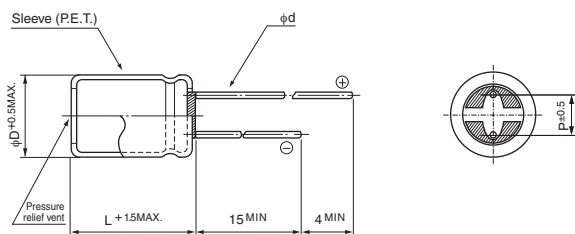
- High ripple current and Long Life product withstanding load life of 12000 hours(10000 hours for $\phi D=10$) at $+105^{\circ}\text{C}$.
- Suited for ballast application.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics							
Category Temperature Range	-25 to +105°C							
Rated Voltage Range	160 to 450V							
Rated Capacitance Range	6.8 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 δ)	Measurement frequency : 120Hz at 20°C							
	Rated voltage (V)	160	200	250	350	400	450	
	tan δ (MAX.)	0.15	0.15	0.15	0.20	0.20	0.20	
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)		160	200	250	350	400	450
	Impedance ratio ZT / Z20 (MAX.)		Z-25°C / Z+20°C	3	3	3	6	6
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 12000 hours (10000 hours for ϕD=10) 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.							

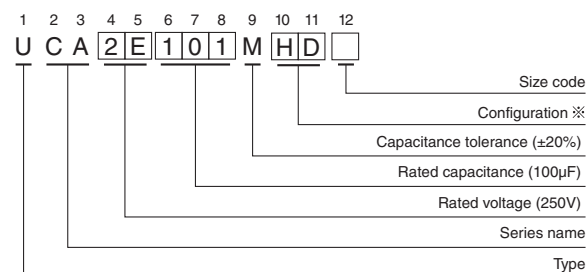
Radial Lead Type



	10	12.5	16	18
ϕD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6	0.6	0.8	0.8

(mm)

Type numbering system (Example : 250V 100 μF)



※ Configuration

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

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

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

- Dimension table in next page.

CAT.8100D



Dimensions

Cap. (μ F)	V	Code	160		200		250		350		400		450	
			2C		2D		2E		2V		2G		2W	
6.8	6R8								10 × 16	220	10 × 16	220	10 × 20	150
10	100		10 × 16	250	10 × 16	250	10 × 20	300	10 × 20	280	10 × 20	280	12.5 × 20	320
22	220		10 × 20	500	10 × 20	500	12.5 × 20	600	12.5 × 20	350	12.5 × 20	430	16 × 25	560
											▲ 16 × 20	600	▲ 18 × 20	560
33	330		10 × 20	565	12.5 × 20	600	12.5 × 20	630	16 × 20	600	16 × 25	640	16 × 31.5	700
											▲ 18 × 20	640	▲ 18 × 25	700
47	470		12.5 × 20	725	12.5 × 20	780	12.5 × 25	720	16 × 25	700	16 × 31.5	840	18 × 31.5	900
							▲ 16 × 20	750	▲ 18 × 20	750	▲ 18 × 25	840		
68	680		12.5 × 25	950	12.5 × 25	950	16 × 25	1000	16 × 31.5	1100	18 × 31.5	1000		
			▲ 16 × 20	970	▲ 16 × 20	970	▲ 18 × 20	920	▲ 18 × 25	875				
100	101		16 × 25	1280	16 × 25	1280	16 × 31.5	1400						
			▲ 18 × 20	1180	▲ 18 × 20	1180	▲ 18 × 25	1345						
150	151		16 × 31.5	1360	16 × 31.5	1360	18 × 31.5	1500						
			▲ 18 × 25	1360	▲ 18 × 25	1360								
220	221		16 × 31.5	1400	18 × 31.5	1700							Case size ϕ D × L (mm)	※
			▲ 18 × 25	1400										

※: Rated ripple current (mA rms) at 105°C 100kHz

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

Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	1kHz	10kHz	100kHz or more
Coefficient	0.40	0.50	0.80	0.90	1.00