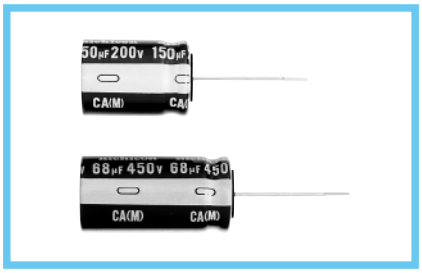
CA series

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 φD=10) at +105°C.
- Suited for ballast application.

PB Long Life → CA → Smaller → CS

■Specifications

Item	Performance Characteristics
Category Temperature Range	–25 ~ +105°C
Rated Voltage Range	160 ~ 450V
Rated Capacitance Range	6.8 ~ 220μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 1 minutes' application of rated voltage, leakage current is not more than 0.04CV+100 (μA)
tan δ	Measurement frequency : 120Hz, Temperature : 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

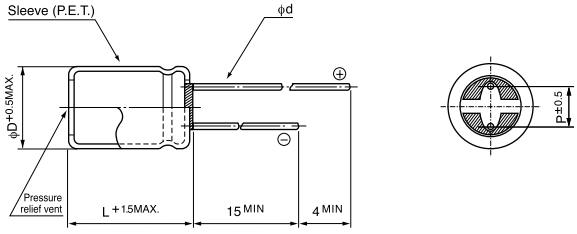
Rated voltage (V)		160	200	250	350	400	450
Impedance ratio ZT / Z20 (MAX.)	Z–25°C / Z+20°C	3	3	3	6	6	6

Endurance — After an application of D.C. bias voltage plus the rated ripple current for 12000 hours (10000 hours for φD =10) at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed at right.

Capacitance change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage current	Initial specified value or less

Shelf Life	After storing the capacitors under no load at 105˚C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.
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

• Please refer to page 21 about the end seal configulation.

Type numbering system (Example : 250V 100μF)

1	2	3	4	5	6	7	8	9	10	11	12
U	C	A	2	E	1	0	1	M	H	D	

Size code
Configuration ※
Capacitance tolerance (±20%)
Rated Capacitance (100μF)
Rated voltage (250V)
Series name
Type

※Configuration

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

Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

● Dimension table in next page.

CA series

■Dimensions

Cap. (μF) \ V	160		200		250		350		400		450	
Code	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 φD × L (mm)	※
	▲18 × 25	1400										

※: Rated Ripple (mArms) 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 ~
Coefficient	0.40	0.50	0.80	0.90	1.00