ALUMINUM ELECTROLYTIC CAPACITORS

VC series

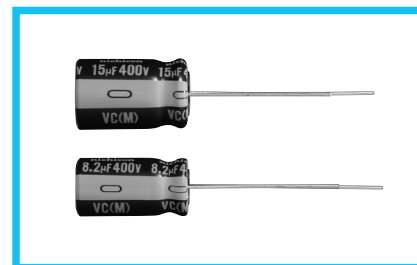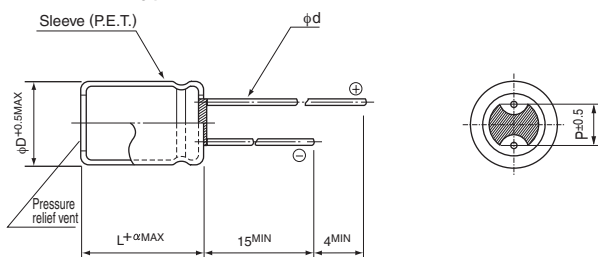Ultra-Miniature-Sized for adapters.

Smaller

VY → Smaller → VC

● One rank smaller case sizes than VY series.
● Swited for adapter circuit.
● Compliant to the RoHS directive (2011/65/EU).

■Specifications

Item	Performance Characteristics				
Category Temperature Range	−40 to +105˚C				
Rated Voltage Range	400V				
Rated Capacitance Range	4.7 to 18μF				
Capacitance Tolerance	±20% at 120Hz, 20˚C				
Leakage Current	I = 0.04CV+100 (μA) or less				
Tangent of loss angle (tan δ)	Rated voltage (V) : 400 / tan δ (MAX.) : 0.25 — Measurement frequency : 120Hz, at 20˚C				
Stability at Low Temperature	Rated voltage (V) : 400; Impedance ratio Z−25˚C / Z+20˚C : 6; ZT / Z20 (MAX.) Z−40˚C / Z+20˚C : 10 — Measurement frequency : 120Hz				
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 ±25% 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

Sleeve (P.E.T.)   φd

φD+0.5MAX   ⊕   P±0.5

Pressure relief vent   L+αMAX   15MIN   4MIN   ⊖

(mm)

φD	8	10
P	3.5	5.0
φd	0.6	0.6

α	(L =11.5) 1.5
	(L≧12.5) 2.0

Type numbering system (Example : 400V 15μF)

1	2	3	4	5	6	7	8	9	10	11
U	V	C	2	G	1	5	0	M	P	D

Configuration ※
Capacitance tolerance (±20%)
Rated capacitance (15μF)
Rated voltage (400V)
Series name
Type

※ Configuration

φ D	Pb-free leadwire / Pb-free PET sleeve
8 · 10	PD

■Dimensions

Cap.(μF)	Code	V 400 2G	
4.7	4R7	8 × 11.5	70
5.6	5R6	8 × 11.5	70
8.2	8R2	8 × 16	85
10	100	10 × 12.5	100
12	120	8 × 20	120
15	150	10 × 16	150
18	180	10 × 20	200
		Case size φ D × L (mm)	Rated ripple

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

● Frequency coefficient of rated ripple current

Cap.(μF) \ Frequency	50Hz	120Hz	500Hz	1 kHz	10kHz or more
4.7 to 8.2	0.65	1.00	1.20	1.30	1.50
10 to 18	0.80	1.00	1.20	1.30	1.50

CAT.8100D