ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UVC

Ultra-Miniature-Sized for adapters.

Smaller

- One rank smaller case sizes than UVY.
- Suited for adapter circuit.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

UVY
Smaller
UVC

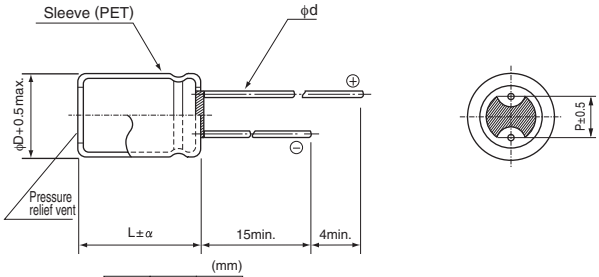


■Specifications

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 ※	After 1 minute's application of rated voltage at 20°C, 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 (max.) Z(–25˚C) / Z(+20˚C): 6; 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.

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

■Radial Lead Type



(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

- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

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

● 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

● Dimension table in next page.

UVC

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20℃ after 1 minute)	Rated Ripple (mArms) (105℃/120Hz)	Part Number
400 (2G)	4.7	8×11.5	0.25	175.2	70	UVC2G4R7MPD
	5.6	8×11.5	0.25	189.6	70	UVC2G5R6MPD
	8.2	8×16	0.25	231.2	85	UVC2G8R2MPD
	10	10×12.5	0.25	260	100	UVC2G100MPD
	12	8×20	0.25	292	120	UVC2G120MPD
	15	10×16	0.25	340	150	UVC2G150MPD
	18	10×20	0.25	388	200	UVC2G180MPD

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).
If there is no size code in the part number, please add size code “1” and then add the appropriate code.

- For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.