

# ALUMINUM ELECTROLYTIC CAPACITORS

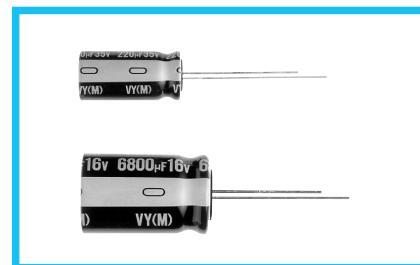
nichicon



Wide Temperature Range



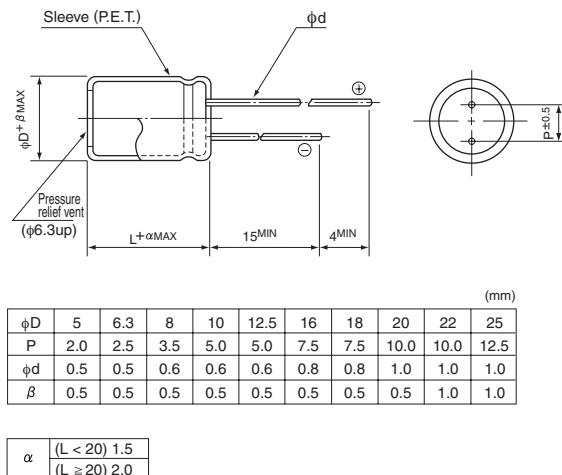
- One rank smaller case sizes than VZ series.
- Compliant to the RoHS directive (2011/65/EU).



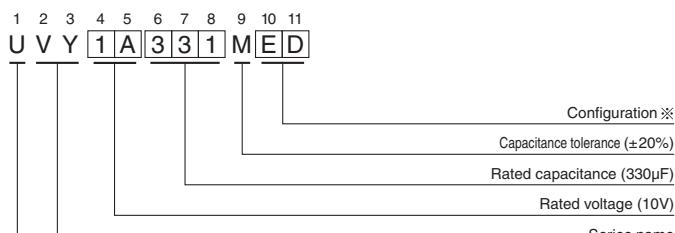
## ■ Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V)											
Rated Voltage Range	6.3 to 450V											
Rated Capacitance Range	0.1 to 68000μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)		6.3 to 100			160 to 450						
			After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.			After 1 minute's application of rated voltage at 20°C, CV ≤ 1000 : I = 0.1CV+40 (μA) or less						
Tangent of loss angle (tan δ)			After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.			After 1 minute's application of rated voltage at 20°C, CV > 1000 : I = 0.04CV+100 (μA) or less						
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.		Measurement frequency : 120Hz at 20°C									
Stability at Low Temperature	Rated voltage (V)		6.3	10	16	25	35	50	63	100	160 to 250	350 to 450
	tan δ (MAX.)		0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25
Endurance	Measurement frequency : 120Hz											
	Rated voltage (V)		6.3	10	16	25	35 to 50	63 to 100	160 to 200	250 to 350	400	450
Shelf Life	Impedance ratio		Z-25°C / Z+20°C	5	4	3	2	2	3	4	6	15
	ZT / Z20 (MAX.)		Z-40°C / Z+20°C	10	8	6	4	3	3	4	8	10
Marking	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C.					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					

## ■ Radial Lead Type



## Type numbering system (Example : 10V 330μF)



### ※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
5	DD
6.3	ED
8 · 10	PD
12.5 to 18	HD
20 to 25	RD

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



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