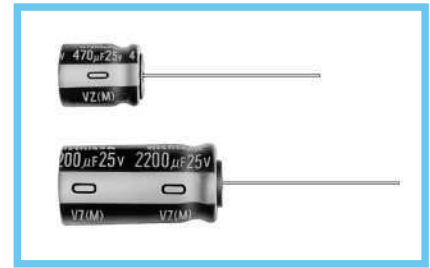
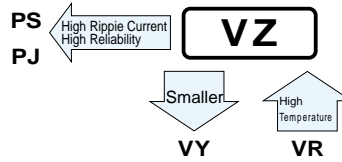


VZ series Wide Temperature Range



Anti-Solvent Feature
(Through 100V only)

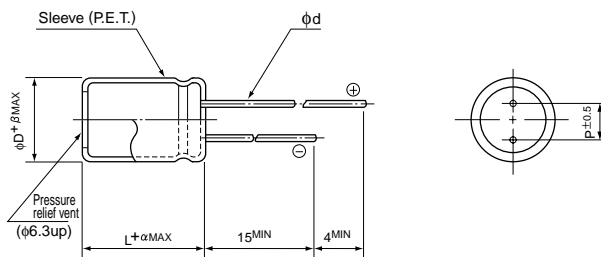
- Small case sizes as same as VR series, but operating over wide temperature range of -55 to $+105^{\circ}\text{C}$.
- Adapted to the RoHS directive (2002/95/EC).



Specifications

Item	Performance Characteristics	
Category Temperature Range	-55 to $+105^{\circ}\text{C}$ (6.3 to 100V), -40 to $+105^{\circ}\text{C}$ (160 to 400V), -25 to $+105^{\circ}\text{C}$ (450V)	
Rated Voltage Range	6.3 to 450V	
Rated Capacitance Range	0.1 to 33000µF	
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C	
Leakage Current	Rated voltage (V)	6.3 to 100
		<p>After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.</p> <p>After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.</p>
tan δ	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency : 120Hz, Temperature : 20°C	
	Rated voltage (V)	6.3 10 16 25 35 50 63 100 160 to 315 350 to 450
Stability at Low Temperature	Measurement frequency : 120Hz	
	Rated voltage (V)	6.3 10 16 25 35 50 63 100 160 to 200 250 to 350 400 450
	Impedance ratio ZT / Z20 (MAX.)	Z- 25°C / Z+ 20°C 5 4 3 2 2 2 2 2 3 4 6 15 Z- 40°C / Z+ 20°C 10 8 6 4 3 3 3 3 4 8 10 —
Endurance	After 1000 hours' application of rated voltage at 105°C , capacitors meet the characteristic requirements listed at right.	
	Capacitance change	Within $\pm 20\%$ of initial value
	tan δ	200% or less of initial specified value
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 black sleeve.		

Radial Lead Type

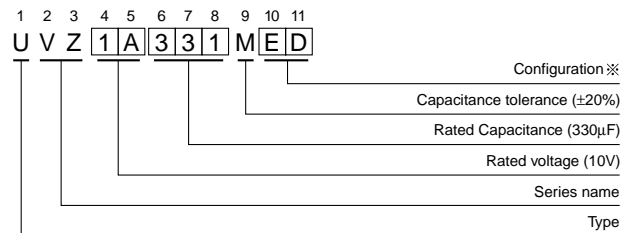


	(mm)	5	6.3	8	10	12.5	16	18	20	22	25
ϕD		5	6.3	8	10	12.5	16	18	20	22	25
P		2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
ϕd		0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.0
β		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0

α	(L < 20) 1.5
	(L \geq 20) 2.0

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

Type numbering system (Example : 10V 330µF)



※ Configuration

ϕD	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.8100W

