

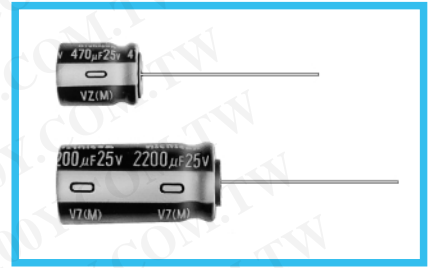
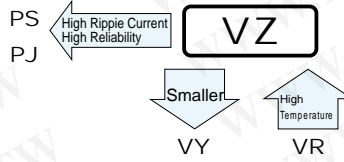
ALUMINUM ELECTROLYTIC CAPACITORS

VZ Wide Temperature Range series



Anti-Solvent Feature (Through 100V only)

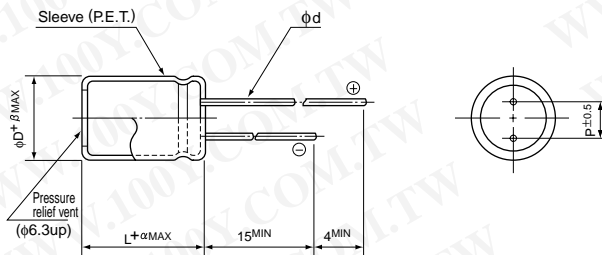
- Small case sizes as same as VR series, but operating over wide temperature range of -55 to $+105^{\circ}\text{C}$.
- Compliant to the RoHS directive (2002/95/EC).



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	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3 to 100</th> <th>160 to 450</th> </tr> </thead> <tbody> <tr> <td>After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.</td> <td></td> <td>After 1 minute's application of rated voltage, $\text{CV} \leq 1000$: $I = 0.1\text{CV} + 40$ (µA) or less</td> </tr> <tr> <td>After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.</td> <td></td> <td>After 1 minute's application of rated voltage, $\text{CV} > 1000$: $I = 0.04\text{CV} + 100$ (µA) or less</td> </tr> </tbody> </table>	Rated voltage (V)	6.3 to 100	160 to 450	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.		After 1 minute's application of rated voltage, $\text{CV} \leq 1000$: $I = 0.1\text{CV} + 40$ (µA) or less	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.		After 1 minute's application of rated voltage, $\text{CV} > 1000$: $I = 0.04\text{CV} + 100$ (µA) or less																																									
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Tangent of loss angle (tan δ)	<table border="1"> <thead> <tr> <th rowspan="2">Rated voltage (V)</th> <th colspan="10">Measurement frequency : 120Hz at 20°C</th> </tr> <tr> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160 to 315</th> <th>350 to 450</th> </tr> </thead> <tbody> <tr> <td>tan δ (MAX.)</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.20</td> <td>0.25</td> </tr> </tbody> </table>	Rated voltage (V)	Measurement frequency : 120Hz at 20°C										6.3	10	16	25	35	50	63	100	160 to 315	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																		
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Stability at Low Temperature	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.																																																		
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Endurance	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 .																																																		
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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 black sleeve.																																																		

Radial Lead Type

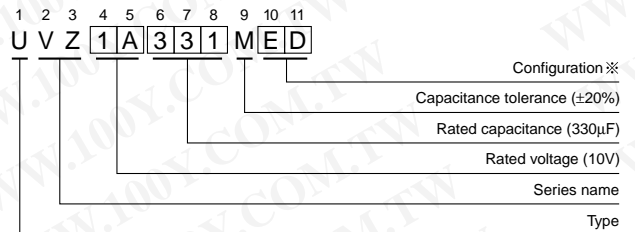


	(mm)									
ϕD	5	6.3	8	10	12.5	16	18	20	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
ϕd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.0
β	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0

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.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

● Dimension table in next page.

