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elektronikai alkatrész áruház

**EN:** This Datasheet is presented by the manufacturer.

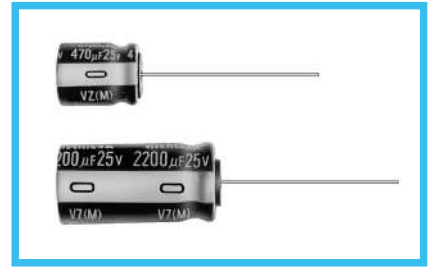
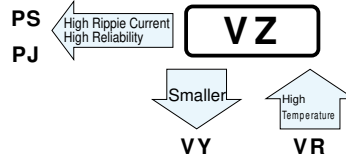
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## VZ series Wide Temperature Range



Anti-Solvent Feature  
(Through 100V only)

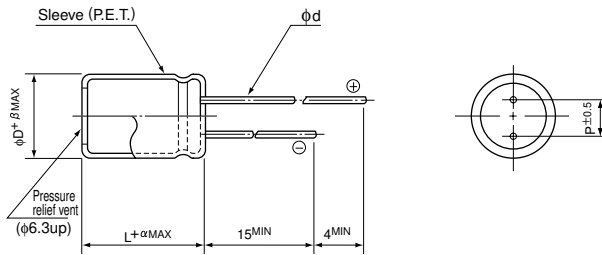
- Small case sizes as same as VR series, but operating over wide temperature range of  $-55$  to  $+105^{\circ}\text{C}$ .
- Compliant to the RoHS directive (2011/65/EU).



### 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, $20^{\circ}\text{C}$  |   |
| Leakage Current                       | Rated voltage (V)  | 6.3 to 100  |
|                                       |  | 160 to 450  |
| Tangent of loss angle (tan $\delta$ ) | For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency : 120Hz at $20^{\circ}\text{C}$  |   |
|                                       | 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  |   |
|                                       | Impedance ratio ZT / Z20 (MAX.)  | Z-25°C / Z+20°C 5 4 3 2 2 2 2 2 3 4 6 15<br>Z-40°C / Z+20°C 10 8 6 4 3 3 3 3 4 8 10 — |
| Endurance                             | The specifications listed at right shall be met when the capacitors are restored to $20^{\circ}\text{C}$ after the rated voltage is applied for 1000 hours at $105^{\circ}\text{C}$ .  |   |
|                                       | Capacitance change   | Within $\pm 20\%$ of the initial capacitance value                                    |
|                                       | Leakage current  | Less than or equal to the initial specified value                                     |
| Shelf Life                            | After storing the capacitors under no load at $105^{\circ}\text{C}$ for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at $20^{\circ}\text{C}$ , they shall meet the specified values for the endurance characteristics listed above. |   |
| Marking                               | Printed with white color letter on black sleeve.   |   |

### Radial Lead Type

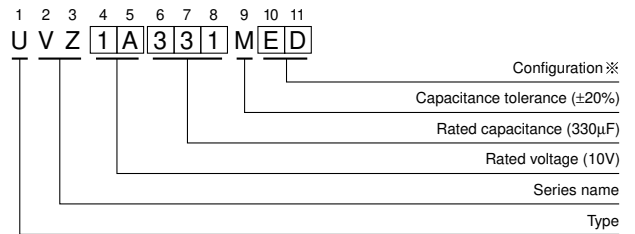


|    | 5   | 6.3 | 8   | 10  | 12.5 | 16  | 18  | 20   | 22   | 25   |
|----|-----|-----|-----|-----|------|-----|-----|------|------|------|
| φD | 5   | 6.3 | 8   | 10  | 12.5 | 16  | 18  | 20   | 22   | 25   |
| P  | 2.0 | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 | 10.0 | 10.0 | 12.5 |
| φd | 0.5 | 0.5 | 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<br>(L ≥ 20) 2.0 |
|---|------------------------------|

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

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



| φ D        | Pb-free leadwire<br>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.

