



VEZ Series

Features

- 4 ϕ ~ 6.3 ϕ , 105°C, 1,000 hours assured
- Low ESR capacitors
- Designed for surface mounting on high density PC board
- RoHS compliance

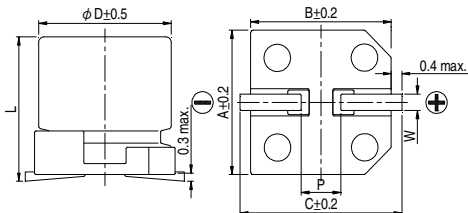


Marking color: Black

Specifications

Items	Performance																													
Category Temperature Range	-55℃ ~ +105℃																													
Capacitance Tolerance	±20% (at 120 Hz, 20℃)																													
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V																													
Tanδ (at 120 Hz, 20℃)	<table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Tanδ (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></tr></table>							Rated Voltage	6.3	10	16	25	35	50	Tanδ (max)	0.28	0.24	0.20	0.16	0.14	0.12									
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Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below. <table><tr><td colspan="2">Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td rowspan="2">Impedance Ratio</td><td>Z(-25℃)/Z(+20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-55℃)/Z(+20℃)</td><td>10</td><td>7</td><td>5</td><td>3</td><td>3</td><td>3</td></tr></table>							Rated Voltage		6.3	10	16	25	35	50	Impedance Ratio	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2	Z(-55℃)/Z(+20℃)	10	7	5	3	3	3
Rated Voltage		6.3	10	16	25	35	50																							
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	Z(-55℃)/Z(+20℃)	10	7	5	3	3	3																							
Endurance	<table><tr><td>Test Time</td><td>1,000 Hrs</td></tr><tr><td>Capacitance Change</td><td>Within ±25% of initial value</td></tr><tr><td>Tanδ</td><td>Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td>Within specified value</td></tr></table> * The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 1,000 hours at 105℃.							Test Time	1,000 Hrs	Capacitance Change	Within ±25% of initial value	Tanδ	Less than 200% of specified value	Leakage Current	Within specified value															
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Tanδ	Less than 200% of specified value																													
Leakage Current	Within specified value																													
Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance.																													
Ripple Current and Frequency Multipliers	<table><tr><td>Frequency(Hz)</td><td>50, 60</td><td>120</td><td>1k</td><td>10k up</td></tr><tr><td>Multiplier</td><td>0.64</td><td>0.8</td><td>0.93</td><td>1.0</td></tr></table>							Frequency(Hz)	50, 60	120	1k	10k up	Multiplier	0.64	0.8	0.93	1.0													
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Diagram of Dimensions

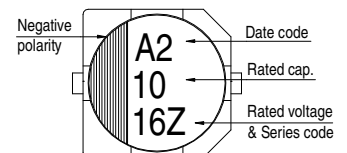


Lead Spacing and Diameter

Unit: mm

φD	L	A	B	C	W	P ± 0.2
4	5.3 ± 0.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
5	5.3 ± 0.2	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	5.3 ± 0.2	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0

Marking



Dimension: φD × L(mm)

Ripple Current: mA/rms at 100k Hz, 105°C

Impedance: Ω/ at 100k Hz, 20°C

Dimension and Permissible Ripple Current

Rated Volt. (Voc)	6.3V (0J)	10V (1A)	16V (1C)	25V (1E)	35V (1V)	50V (1H)
Cap. (μF) Contents	φD×L Imp. mA	φD×L Imp. mA	φD×L Imp. mA	φD×L Imp. mA	φD×L Imp. mA	φD×L Imp. mA
1.0 010						4×5.3 5.0 30
2.2 2R2						4×5.3 5.0 30
3.3 3R3						4×5.3 5.0 30
4.7 4R7				4×5.3 3.20 65	4×5.3 3.20 65	5×5.3 3.0 50
10 100		4×5.3 3.20 65	4×5.3 3.20 65	5×5.3 1.50 110	5×5.3 1.50 110	6.3×5.3 2.0 70
22 220	4×5.3 3.20 65	5×5.3 1.50 110	5×5.3 1.50 110	6.3×5.3 0.85 170	6.3×5.3 0.85 170	6.3×5.3 2.0 70
33 330	5×5.3 1.50 110	5×5.3 1.50 110	6.3×5.3 0.85 170	6.3×5.3 0.85 170	6.3×5.3 0.85 170	6.3×7.7 1.0 170
47 470	5×5.3 1.50 110	6.3×5.3 0.85 170	6.3×5.3 0.85 170	6.3×5.3 0.85 170	6.3×7.7 0.50 255	
100 101	6.3×5.3 0.85 170	6.3×5.3 0.85 170	6.3×5.3 0.85 170	6.3×7.7 0.50 255		
150 151	6.3×7.7 0.50 255	6.3×7.7 0.50 255	6.3×7.7 0.50 255			
220 221	6.3×7.7 0.50 255	6.3×7.7 0.50 255	6.3×7.7 0.50 255			

Part Numbering System

VEZ Series	10μF	±20%	16V	Carrier Tape	4 φ × 5.3L	Pb-free and PET coating case
VEZ	100	M	1C	TR	-	0405
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size
						Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.

Mouser Electronics

Authorized Distributor

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Lelon:

<u>VEZ220M0JTR-0405</u>	<u>VEZ330M0JTR-0505</u>	<u>VEZ470M0JTR-0505</u>	<u>VEZ101M0JTR-0605</u>	<u>VEZ151M0JTR-0607</u>
<u>VEZ221M0JTR-0607</u>	<u>VEZ100M1ATR-0405</u>	<u>VEZ220M1ATR-0505</u>	<u>VEZ330M1ATR-0505</u>	<u>VEZ470M1ATR-0605</u>
<u>VEZ151M1ATR-0607</u>	<u>VEZ221M1ATR-0607</u>	<u>VEZ100M1CTR-0405</u>	<u>VEZ220M1CTR-0505</u>	<u>VEZ330M1CTR-0605</u>
<u>VEZ470M1CTR-0605</u>	<u>VEZ101M1CTR-0605</u>	<u>VEZ151M1CTR-0607</u>	<u>VEZ221M1CTR-0607</u>	<u>VEZ100M1ETR-0505</u>
<u>VEZ220M1ETR-0605</u>	<u>VEZ470M1ETR-0605</u>	<u>VEZ101M1ETR-0607</u>	<u>VEZ4R7M1VTR-0405</u>	<u>VEZ100M1VTR-0505</u>
<u>VEZ220M1VTR-0605</u>	<u>VEZ330M1VTR-0605</u>	<u>VEZ010M1HTR-0405</u>	<u>VEZ2R2M1HTR-0405</u>	<u>VEZ3R3M1HTR-0405</u>
<u>VEZ4R7M1HTR-0505</u>	<u>VEZ220M1HTR-0605</u>	<u>VEZ330M1HTR-0607</u>		