



SMD Aluminum Electrolytic Capacitors

VZS

Features

- 5 ~ 8 ϕ , 105°C, 2,000 hours assured
- Low impedance 30 ~ 50% less than VZH series
- Large capacitance with ultra low impedance capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance

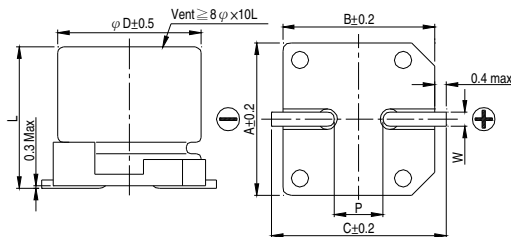


Marking color: Black

SPECIFICATIONS

Items	Performance																				
Category Temperature Range	-55°C ~ +105°C																				
Capacitance Tolerance	±20% (at 120Hz, 20°C)																				
Leakage Current (at 20°C)	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																				
Dissipation Factor (Tan δ at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.16</td> <td>0.13</td> </tr> </tbody> </table>	Rated Voltage	6.3	10	16	25	35	Tan δ (max)	0.30	0.26	0.22	0.16	0.13								
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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage		6.3	10	16	25	35	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2	Z(-55°C)/Z(+20°C)	8	5	4	3	3
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Shelf Life Test	Test time: 1,000 hours; other items are the same as those for the Endurance.																				
Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th>Frequency(Hz)</th> <th>50, 60</th> <th>120</th> <th>1k</th> <th>10k up</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>0.60</td> <td>0.70</td> <td>0.85</td> <td>1.0</td> </tr> </tbody> </table>	Frequency(Hz)	50, 60	120	1k	10k up	Multiplier	0.60	0.70	0.85	1.0										
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DIAGRAM OF DIMENSIONS



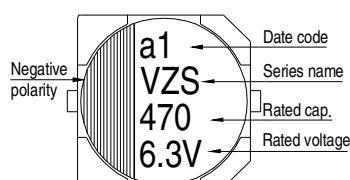
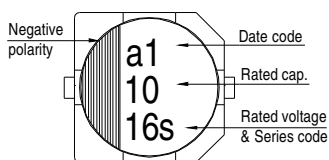
LEAD SPACING AND DIAMETER Unit: mm

ϕD	L	A	B	C	W	P ± 0.2
5	5.7 ± 0.3	5.3	5.3	6.1	0.5 ~ 0.8	1.5
6.3	5.7 ± 0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0
8	10 ± 0.5	8.4	8.4	9.2	0.7 ~ 1.1	3.1

MARKING

$\phi D \leq 6.3$ mm

$\phi D = 8$ mm





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Dimension: $\phi D \times L$ (mm)
 Ripple Current: mA/rms at 100k Hz, 105°C
 Impedance: Ω / at 100k Hz, 20°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V. DC		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
μF	Contents	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA
22	220							5x5.7	0.36	240	5x5.7	0.36	240	5x5.7	0.36	240
33	330				5x5.7	0.36	240				5x5.7	0.36	240	5x5.7	0.36	240
											6.3x5.7	0.26	300	6.3x5.7	0.26	300
47	470	5x5.7	0.36	240				5x5.7	0.36	240	5x5.7	0.36	240	6.3x5.7	0.26	300
								6.3x5.7	0.26	300	6.3x5.7	0.26	300	6.3x5.7	0.26	300
68	680							5x5.7	0.36	240	6.3x5.7	0.26	300	6.3x5.7	0.26	300
								6.3x5.7	0.26	300	6.3x5.7	0.26	300	6.3x5.7	0.26	300
100	101	5x5.7 6.3x5.7	0.36 0.26	240 300	5x5.7	0.36	240	6.3x5.7	0.26	300	6.3x5.7	0.26	300	8x10	0.08	850
150	151	5x5.7	0.36	240	6.3x5.7	0.26	300	6.3x5.7	0.26	300	8x10	0.08	850	8x10	0.08	850
220	221	6.3x5.7	0.26	300	6.3x5.7	0.26	300	8x10	0.08	850	8x10	0.08	850	8x10	0.08	850
330	331	6.3x5.7	0.26	300	8x10	0.08	850	8x10	0.08	850	8x10	0.08	850			
470	471	8x10	0.08	850	8x10	0.08	850	8x10	0.08	850						
680	681	8x10	0.08	850	8x10	0.08	850									

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