



SMD Aluminum Electrolytic Capacitors

VES

Features

- 4 ~ 6.3 ϕ , 105°C, 1,000 hours assured
- Vertical chip type miniaturized for 5.5mm high capacitor
- Designed for surface mounting on high density PC board
- RoHS Compliance

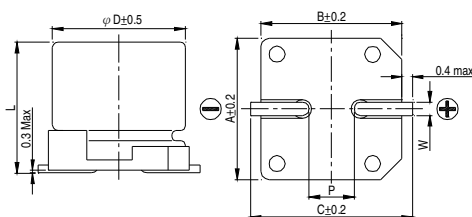


Marking color: Black

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> <th>50</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> <td>0.12</td> </tr> </tbody> </table>	Rated Voltage	6.3	10	16	25	35	50	Tan δ (max)	0.30	0.26	0.22	0.16	0.13	0.12									
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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> <th>50</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> <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> <td>3</td> </tr> </tbody> </table>	Rated Voltage		6.3	10	16	25	35	50	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	Z(-55°C)/Z(+20°C)	8	5	4	3	3	3
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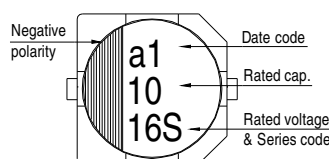
DIAGRAM OF DIMENSIONS



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	6.1	0.5 ~ 0.8	1.5
6.3	5.3 ± 0.2	6.6	6.6	7.4	0.5 ~ 0.8	2.0

MARKING





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VES

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: $\phi D \times L$ (mm)
Ripple Current: mA/rms at 120 Hz, 105°C

μF	V. DC Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
0.1	0R1											4x5.3	2
0.22	R22											4x5.3	3
0.33	R33											4x5.3	4
0.47	R47											4x5.3	5
1	010											4x5.3	7
2.2	2R2											4x5.3	10
3.3	3R3											4x5.3	12
4.7	4R7							4x5.3	12	4x5.3	14	5x5.3	17
10	100			4x5.3	15	4x5.3	16	5x5.3	21	5x5.3	23	6.3x5.3	26
22	220	4x5.3	21	5x5.3	25	5x5.3	28	6.3x5.3	36	6.3x5.3	50	6.3x5.3	51
33	330	5x5.3	30	5x5.3	31	6.3x5.3	40	6.3x5.3	44				
47	470	5x5.3	36	6.3x5.3	43	6.3x5.3	47	6.3x5.3	60				
100	101	6.3x5.3	61	6.3x5.3	65	6.3x5.3	70						