



Features

- 6.3 ~ 18 ϕ , 125°C, 1,000 ~ 2,000 hours assured
- Chip type high temperature range, for +125°C use
- For automobile modules and other high temperature applications
- RoHS Compliance



Marking color: Black

SPECIFICATIONS

Items	Performance																					
Category Temperature Range	-40°C ~ +125°C																					
Capacitance Tolerance	±20% (at 120Hz, 20°C)																					
Leakage Current (at 20°C)	I = 0.03CV or 4 (μA) whichever is greater (after 1 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>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.32</td> <td>0.24</td> <td>0.21</td> <td>0.18</td> <td>0.15</td> </tr> </tbody> </table>	Rated Voltage	10	16	25	35	50	Tan δ (max)	0.32	0.24	0.21	0.18	0.15									
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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>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Impedance</td> <td>Z(-25°C)/Z(+20°C)</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> </tr> <tr> <td>Ratio</td> <td>Z(-40°C)/Z(+20°C)</td> <td>12</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	Rated Voltage		10	16	25	35	50	Impedance	Z(-25°C)/Z(+20°C)	6	5	4	3	3	Ratio	Z(-40°C)/Z(+20°C)	12	8	6	4	4
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DIAGRAM OF DIMENSIONS

Fig. 1

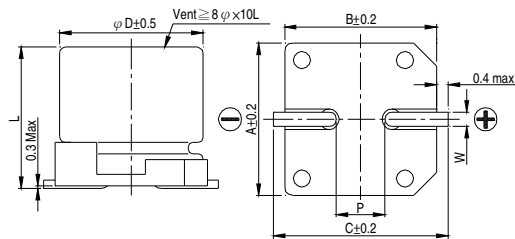
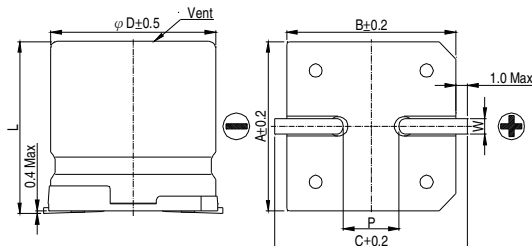


Fig. 2



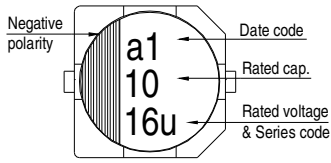
LEAD SPACING AND DIAMETER

Unit: mm

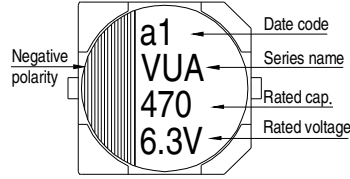
φD	L	A	B	C	W	P ± 0.2	Fig. No.
6.3	5.7±0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0	1
6.3	7.7 ± 0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0	1
8	6.5 ± 0.3	8.4	8.4	9.2	0.5 ~ 0.8	2.3	1
8	10 ± 0.5	8.4	8.4	9.2	0.7 ~ 1.1	3.1	1
10	10 ± 0.5	10.4	10.4	11.2	0.7 ~ 1.1	4.7	1
12.5	13.5 ± 0.5	13.0	13.0	15.0	1.1 ~ 1.4	4.4	2
12.5	16 ± 0.5	13.0	13.0	15.0	1.1 ~ 1.4	4.4	2
16	16.5 ± 0.5	17.0	17.0	19.0	1.1 ~ 1.4	6.4	2
18	16.5 ± 0.5	19.0	19.0	21.0	1.1 ~ 1.4	6.4	2

MARKING

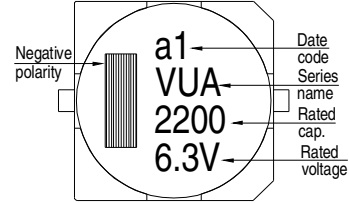
$\phi D = 6.3 \text{ mm}$



$\phi D = 8 \sim 10 \text{ mm}$



$\phi D \geq 12.5 \text{ mm}$



DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 120 Hz, 125°C

μF	V. DC Contents	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
22	220							6.3×5.7	50	8×6.5	75
33	330			6.3×5.7	50	6.3×5.7	50	6.3×7.7	70	8×10	130
47	470			6.3×7.7	70	6.3×7.7	70	8×6.5	75	8×10	130
68	680	6.3×5.7	50	8×6.5	75	8×6.5	75	8×10	130	10×10	180
100	101	8×6.5	75	8×6.5	75	8×10	130	10×10	180	12.5×13.5	357
220	221	8×10	130	10×10	180	10×10	180	12.5×13.5	357	12.5×16	400
330	331	8×10	130	12.5×13.5	480	12.5×13.5	480	16×16.5	650	16×16.5	650
470	471	12.5×13.5	480	12.5×13.5	480	12.5×13.5	480	16×16.5	650	16×16.5	650
680	681	12.5×13.5	480	12.5×13.5	480	12.5×16	585	16×16.5	650	18×16.5	855
1,000	102	12.5×16	585	12.5×16	585	16×16.5	650	18×16.5	855		
1,500	152	12.5×16	585	16×16.5	650	18×16.5	855				
2,200	222	16×16.5	650	18×16.5	855						
3,300	332	18×16.5	855								
4,700	472	18×16.5	855								

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