

VP4

- ◆ 105°C 2000 Hours
- ◆ 3.95mm Height, Ultra-thin
- ◆ High Stability, Low ESR
- ◆ SMT Type, High Temperature Reflow Soldering
- ◆ RoHS Compliant (2011/65/EU)

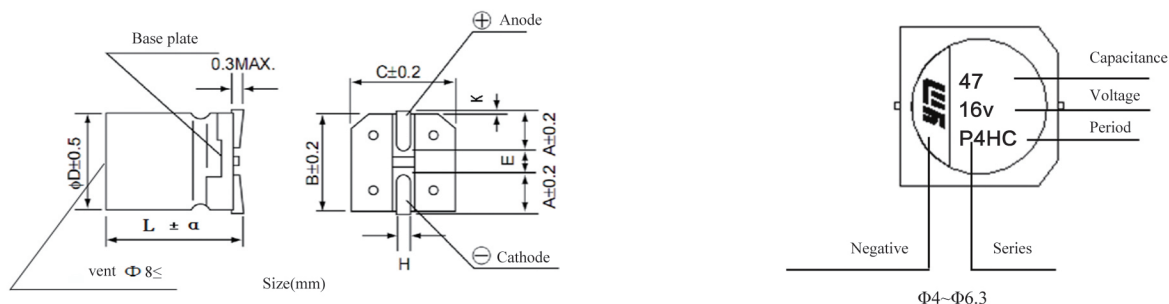


Specification

Items	Characteristics								
Operation Temperature Range	-55°C~+105°C								
Rated Voltage	6.3~100V								
Capacitance Range	1.0~220μF 120Hz/20°C								
Capacitance Tolerance	±20%(120Hz/20°C)								
Dissipation Factor	Less than standard data 120Hz/20°C								
Leakage Current	Less than standard data charging 2mins with rated voltage, 20°C								
ESR	Less than standard data 100KHz/20°C								
Endurance	After load rated voltage for 2000hours at 105°C, the following specification shall be satisfied after placing capacitor for 16 hours at 20°C <table> <tr> <td>Capacitance change</td><td>Within±20% of the initial value</td></tr> <tr> <td>ESR</td><td>Not more than 200% of the specified value</td></tr> <tr> <td>Dissipation Factor</td><td>Not more than 200% of the specified value</td></tr> <tr> <td>Leakage current</td><td>Not more than the specified value</td></tr> </table>	Capacitance change	Within±20% of the initial value	ESR	Not more than 200% of the specified value	Dissipation Factor	Not more than 200% of the specified value	Leakage current	Not more than the specified value
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ESR	Not more than 200% of the specified value								
Dissipation Factor	Not more than 200% of the specified value								
Leakage current	Not more than the specified value								
Humidity	Store the capacitor at 60°C under the condition of 90%~95%R.H with no load for 1000hrs, the following specifications shall be satisfied after placing capacitor for 16 hours at 20°C. <table> <tr> <td>Capacitance change</td><td>Within±20% of the initial value</td></tr> <tr> <td>ESR</td><td>Not more than 200% of the specified value</td></tr> <tr> <td>Dissipation Factor</td><td>Not more than 200% of the specified value</td></tr> <tr> <td>Leakage current</td><td>Not more than the specified value</td></tr> </table>	Capacitance change	Within±20% of the initial value	ESR	Not more than 200% of the specified value	Dissipation Factor	Not more than 200% of the specified value	Leakage current	Not more than the specified value
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ESR	Not more than 200% of the specified value								
Dissipation Factor	Not more than 200% of the specified value								
Leakage current	Not more than the specified value								

If you have question for leakage current, please apply rated voltage on capacitors at 105°C for 2hours, then test the leakage current again at 20°C.

Standard Size



ΦD	B	C	A	H	E	K	α
4 x 3.95	5.3	5.3	1.6	0.65±0.10	0.8	0.5MAX	± 0.05 -0.10
5 x 3.95	5.3	5.3	2.1	0.65±0.10	1.3	0.5MAX	
6.3 x 3.95	6.6	6.6	2.6	0.90±0.20	1.8	0.5MAX	

Rated Ripple Current Frequency Correction Factor

Frequency(Hz)	120Hz	1KHz	10KHz	100KHz	300KHz
Correction factor	0.12	0.35	0.80	1.00	1.00

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■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
6.3(7.2)	68	4x3.95	0.08	60	600
6.3(7.2)	120	5x3.95	0.08	60	950
6.3(7.2)	220	6.3x3.95	0.08	60	1500
10(11.5)	39	4x3.95	0.08	60	600
10(11.5)	82	5x3.95	0.08	60	950
10(11.5)	150	6.3x3.95	0.08	60	1500
16(18.4)	22	4x3.95	0.08	60	600
16(18.4)	47	5x3.95	0.08	60	950
16(18.4)	82	6.3x3.95	0.08	60	1500
25(28.8)	15	4x3.95	0.08	60	500
25(28.8)	33	5x3.95	0.08	60	750
25(28.8)	56	6.3x3.95	0.08	60	1150
35(41)	10	4x3.95	0.12	60	500
35(41)	18	5x3.95	0.12	60	750
35(41)	33	6.3x3.95	0.12	60	1150
50(58)	4.7	4x3.95	0.12	100	400
50(58)	8.2	5x3.95	0.12	100	650
50(58)	22	6.3x3.95	0.12	100	950
63(73)	2.2	4x3.95	0.12	100	400
63(73)	4.7	5x3.95	0.12	100	650
63(73)	10	6.3x3.95	0.12	100	950
80(92)	1.5	4x3.95	0.12	100	400
80(92)	3.3	5x3.95	0.12	100	650
80(92)	5.6	6.3x3.95	0.12	100	950
100(115)	1.0	4x3.95	0.12	100	400
100(115)	1.8	5x3.95	0.12	100	650
100(115)	3.3	6.3x3.95	0.12	100	950