

**SZ**

Ultra low impedance Series

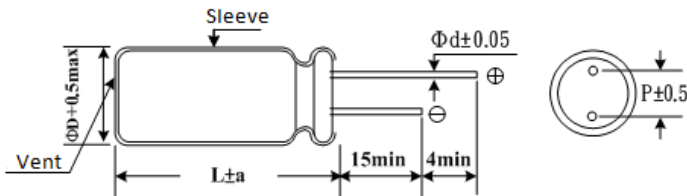
- Endurance: 105°C 1000~2000 hours
- Recommended Applications : Applicable for switching regulator of computer, especially for high frequency
- Corresponding product to RoHS



**SPECIFICATIONS**

Item	Characteristics													
Category Temperature Range	-40 ~ +105°C													
Rated Voltage Range	6.3 ~ 16VDC													
Rated Capacitance Range	470 ~ 3300 µF													
Capacitance Tolerance	± 20 % (120Hz , 20°C)													
Leakage Current (20°C)	I=0.03CV ,(After rated voltage applied for 2 minutes) I : Max. leakage current (µ A), C : Nominal capacitance (µ F), V : Rated voltage (V)													
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> </tr> <tr> <td>tan δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> </tr> </table> <p>When nominal capacitance is over 1000 µ F,tan δ shall be added 0.02 to the listed value with increase of every 1000 µ F.</p>	WV	6.3	10	16	tan δ	0.22	0.19	0.16					
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td rowspan="3">Z(120Hz)</td> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> </tr> </table>	Z(120Hz)	WV	6.3	10	16	Z-25°C / Z+20°C	4	3	2	Z-40°C / Z+20°C	8	6	4
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	Z-25°C / Z+20°C		4	3	2									
	Z-40°C / Z+20°C	8	6	4										
Endurance	<p>After applying rated voltage with ripple current for 1000~2000 hours at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 25% of initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>Not more than 200% of specified value</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the specified value</td> </tr> </table> <p>*If dimension is down size,Endurance will be less 1000 hours than standard.</p>	Capacitance change	Within ± 25% of initial value	D.F. (tan δ)	Not more than 200% of specified value	Leakage current	Not more than the specified value							
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D.F. (tan δ)	Not more than 200% of specified value													
Leakage current	Not more than the specified value													
Shelf Life	After placed at 105°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.													

**Dimensions [mm]**



ΦD	8	10
P	3.5	5
Φd	0.6	0.6
a	1.5	1.5

**Multiplier for Ripple Current**

Freq. (Hz)	120	1K	10K	100K
Factor	0.5	0.8	0.9	1.0

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D x L (mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (m $\Omega$ ,20°C) (100KHz)
6.3V ( 8 )	820	8 x 11	1036	43
	1200	8 x 15	1355	34
		8 x 20	1740	25
	1500	10 x 12.5	1400	31
		10 x 16	1818	23
	2200	10 x 20	2318	15
10V ( 13 )	3300	10 x 25	2364	14
	680	8 x 11	1036	43
		8 x 15	1355	34
		10 x 12.5	1400	31
1500	8 x 20	1700	25	

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D x L (mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (m $\Omega$ ,20°C) (100KHz)
10V ( 13 )	1500	10 x 16	1818	23
	1800	10 x 20	2318	16
	2200	10 x 25	2545	14
16V ( 20 )	470	8 x 11	1036	43
		8 x 15	1355	34
	680	10 x 12.5	1400	31
		8 x 20	1700	25
	1000	10 x 16	1818	23
		1500	10 x 20	2318
1800	10 x 25	2546	14	