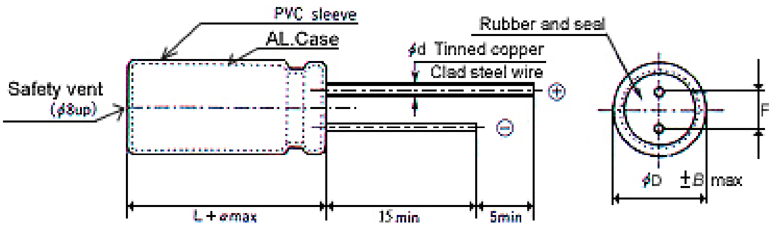
SZ 系列 Series 低阻抗品 Low E.S.R.

<table>
<tr><th>項目 Item</th><th>特性 Characteristics</th></tr>
<tr><td>使用溫度範圍
Operating
Temperature Range</td><td>- 40 ~ 105℃</td></tr>
<tr><td>額定電壓範圍
Rated Working
Voltage Range</td><td>10V ~ 50V DC</td></tr>
<tr><td>靜電容量容許差
Capacitance
Tolerance
(120Hz, 25℃)</td><td>±20% (M)</td></tr>
<tr><td>洩漏電流
Leakage Current
(25℃)</td><td>I ≦ 0.01CV + 3 (μ A)
I : Leakage Current (μ A) C : Rated Capacitance (μ F) V : Working Voltage (V)
After 5 minutes applying the DC working Voltage</td></tr>
<tr><td>突波電壓
Surge Voltage (25℃)</td><td>
<table>
<tr><td>W.V.</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr>
<tr><td>S.V.</td><td>13</td><td>20</td><td>32</td><td>44</td><td>63</td></tr>
</table>
</td></tr>
<tr><td>散逸因素
(Tan. θ)
Dissipation Factor
(120Hz, 25℃)</td><td>
<table>
<tr><td>W.V.</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr>
<tr><td>Tan. θ</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.10</td><td>0.08</td></tr>
</table>
</td></tr>
<tr><td>溫度特性
Temperature
Characteristics</td><td>
<table>
<tr><td>W.V.</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr>
<tr><td>-25℃ /+25℃</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr>
<tr><td>-40℃ /+25</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td></tr>
</table>
Impedance ratio at 120HZ
</td></tr>
<tr><td>高溫負荷特性
Load Test</td><td>After 2000 hours application of W.V. at +105℃
the capacitor shall meet he following limits
<table>
<tr><td>Capacitance change</td><td>≦ ± 20% of initial value</td></tr>
<tr><td>Tan. θ</td><td>≦ ± 200% of initial specified value</td></tr>
<tr><td>Leakage current</td><td>≦ initial specified value</td></tr>
</table>
</td></tr>
<tr><td>放置特性
Shelf Test</td><td>After 500 hours application of W.V. at +105℃
the capacitor shall meet he following limits
<table>
<tr><td>Capacitance change</td><td>≦ ± 20% of initial value</td></tr>
<tr><td>Tan. θ</td><td>≦ 200% of initial specified value</td></tr>
<tr><td>Leakage current</td><td>≦ 200% of initial specified value</td></tr>
</table>
</td></tr>
</table>

SZ 尺 寸 圖 Dimension



L = 16 → α = 1	øD ≦ 10 → β = 0.5
L > 16 → α = 2	øD > 10 → β = 1.0

Unit (mm)

D	5	6	8	10	13	16
F ± 0.5	2	2.5	3.5	5	5	7.5
d ± 0.02	0.5	0.5	0.5	0.6	0.6	0.8

D x L (m/m)

WV / μF	6.3	10	16	25	35	50
10						5*11
22						6*12
33					6*12	6*12
47			5*11	6*12	6*12	6*12
100		5*11	6*12	6*12	8*12	8*12
220		6*12	6*12	8*12	8*12	10*17
330		8*12	8*12	8*14	10*17	10*21
470		8*12	8*12	8*14	10*15	13*21
1000	8*12	8*14	10*17	10*17	13*21	16*26
2200	10*21	10*20	13*21	13*26	16*36	18*36
3300	10*21	10*26	13*26	16*32	16*36	
4700	10*25	13*25	16*32	18*36	22*36	

WV / ITEM / μF	6.3		10		16		25		35		50	
	PERMISSIBLE RUPPLE CURRENT (mA)	IMPEDANCE 20℃ 100KHz Max(Ω)	PERMISSIBLE RUPPLE CURRENT (mA)	IMPEDANCE 20℃ 100KHz Max(Ω)	PERMISSIBLE RUPPLE CURRENT (mA)	IMPEDANCE 20℃ 100KHz Max(Ω)	PERMISSIBLE RUPPLE CURRENT (mA)	IMPEDANCE 20℃ 100KHz Max(Ω)	PERMISSIBLE RUPPLE CURRENT (mA)	IMPEDANCE 20℃ 100KHz Max(Ω)	PERMISSIBLE RUPPLE CURRENT (mA)	IMPEDANCE 20℃ 100KHz Max(Ω)
10											120	2.0
22											160	0.90
33									230	0.40	270	0.40
47					200	0.40	240	0.35	340	0.30	360	0.28
100			242	1.10	360	0.30	410	0.20	560	0.09	680	0.09
220			390	0.45	575	0.40	750	0.075	1000	0.06	1280	0.05
330			540	0.38	740	0.08	850	0.060	1400	0.05	1800	0.05
470			750	0.25	990	0.06	1260	0.045	1850	0.04	2000	0.04
1000	1000	0.15	1220	0.13	1840	0.035	2340	0.02	2780	0.02	3000	0.02
2200	2160	0.065	2370	0.05	2750	0.022	3400	0.02	3000	0.02	4000	0.02
3300	2290	0.055	2720	0.045	3490	0.018	2800	0.02	3200	0.02		
4700	3200	0.04	3450	0.04	2700	0.019	3200	0.016	4200	0..07		