

SZ Series 7-9 mm Low Impedance



Features

- ◆ Operating temperature range -55 to +105°C
- ◆ 105°C, 1000 hours assured
- ◆ RoHS Compliant

Specifications

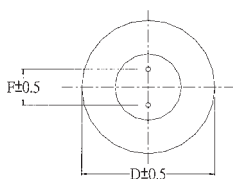
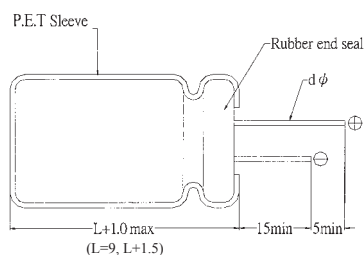
Item	Performance Characteristics																		
Operating Temperature Range	-55 to +105°C																		
Rated Voltage Range	6.3 to 35 VDC																		
Capacitance Range	6.8 to 330 µ F																		
Capacitance Tolerance	±20%(120Hz,+20°C)																		
Leakage Current (+20°C,max.)	I ≤ 0.01 CV or 3 (µ A) After 2 minutes, whichever is greater measured with rated working voltage applied.																		
Dissipation Factor (tan δ , at 20°C , 120Hz)	<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>D.F.(%)max.</td> <td>18</td> <td>16</td> <td>14</td> <td>12</td> <td>12</td> </tr> </table>	Working Voltage(VDC)	6.3	10	16	25	35	D.F.(%)max.	18	16	14	12	12						
	Working Voltage(VDC)	6.3	10	16	25	35													
D.F.(%)max.	18	16	14	12	12														
Low Temperature Characteristics (at 120Hz)	Impedance ratio max																		
	<table border="1"> <tr> <td>Rated Voltage(VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-55°C / Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage(VDC)	6.3	10	16	25	35	Z-25°C / Z+20°C	2	2	2	2	2	Z-55°C / Z+20°C	3	3	3	3	3
	Rated Voltage(VDC)	6.3	10	16	25	35													
Z-25°C / Z+20°C	2	2	2	2	2														
Z-55°C / Z+20°C	3	3	3	3	3														
Endurance	Test condition Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : Rated DC working voltage After test requirement at +20°C Capacitance change : with ±20% of the initial measured value Dissipation factor : ≤ 200% of the initial specified value Leakage current : ≤ The initial specified value																		
Shelf Life	Test condition Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : None After test requirement at +20°C: Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																		

Radial

Multiplier for Ripple Current vs. Frequency

CAP(µF)\Frequency(Hz)	50(60)	120	400	1K	10K	50K-100K
CAP ≤ 10	0.47	0.59	0.76	0.85	0.91	1
10 < CAP ≤ 220	0.52	0.65	0.80	0.89	0.97	1
100 < CAP	0.58	0.72	0.84	0.90	0.98	1

Diagram of Dimensions:(unit:mm)



D φ	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
d φ	0.45		0.5	

Case Size

WV (Vdc)	Cap (uF)	Size (mm)	Ripple current (mArms/105°C /100KHz)	Max Imp.(Ω) at 20°C/100KHz
6.3	33	5x7	110	1.70
6.3	47	5x7	110	1.70
6.3	68	6.3x7	160	0.80
6.3	100	6.3x7	160	0.80
6.3	120	6.3x7	165	0.70
6.3	150	6.3x7	178	0.60
6.3	180	8x7	190	0.58
6.3	220	8x7	200	0.50
6.3	330	8x7	350	0.35
6.3	470	8x9	400	0.30
10	22	4x7	70	3.30
10	33	5x7	110	1.70
10	47	5x7	160	0.80
10	68	6.3x7	160	0.80
10	100	6.3x7	200	0.50
10	120	6.3x7	205	0.48
10	150	8x7	230	0.45
10	180	8x7	250	0.45
10	220	8x7	280	0.35
10	330	8x9	320	0.30
10	470	10x9	430	0.22
16	22	5x7	115	1.70
16	33	6.3x7	160	0.80
16	47	6.3x7	160	0.80

WV (Vdc)	Cap (uF)	Size (mm)	Ripple current (mArms/105°C /100KHz)	Max Imp.(Ω) at 20°C/100KHz
16	68	8x7	200	0.50
16	100	8x7	200	0.45
16	120	8x7	350	0.35
16	150	8x7	370	0.32
16	180	8x7	400	0.30
16	220	8x7	430	0.26
16	330	8x9	500	0.22
25	10	4x7	70	3.00
25	22	5x7	110	1.70
25	33	6.3x7	160	0.80
25	47	8x7	200	0.50
25	68	8x7	200	0.50
25	100	8x7	250	0.35
25	150	8x7	340	0.40
25	180	8x9	450	0.25
25	220	8x9	600	0.22
25	330	10x9	750	0.15
35	6.8	4x7	70	3.30
35	10	5x7	110	1.70
35	22	6.3x7	160	0.80
35	33	8x7	200	0.50
35	47	8x7	245	0.45
35	68	8x7	280	0.42