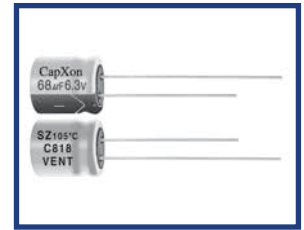


SZ Series 7-9 mm Low Impedance

Features

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



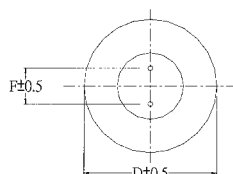
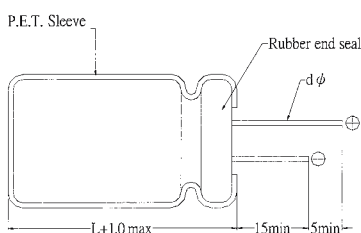
Specifications

Item	Performance Characteristics																		
Operating Temperature Range	-55 to +105°C																		
Rated Voltage Range	6.3 to 35 VDC																		
Capacitance Range	6.8 to 330 µF																		
Capacitance Tolerance	±20% (120Hz, +20°C)																		
Leakage Current(+20°C, max)	I ≤ 0.01 CV or 3 (µA) After 2 minutes, whichever is greater measured with rate 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 conditions Duration time :1000 Hrs Ambient temperature :+105°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change :≤ ±20% of the initial measured value Dissipation factor :≤ 200% of the initial specified value Leakage current :≤ The initial specified value																		
Shelf Life	Test conditions Duration time :1000 Hrs 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.																		

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

φ DxL(mm)

WV Cap(μF)	6.3			10			16		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
22				4x7	70	3.30	5x7	115	1.7
33	5x7	110	1.70	5x7	110	1.70	6.3x7	160	0.8
47	5x7	110	1.70	5x7	160	0.80	6.3x7	160	0.8
68	6.3x7	160	0.80	6.3x7	160	0.80	8x7	200	0.5
100	6.3x7	160	0.80	6.3x7	200	0.50	8x7	200	0.45
120	6.3x7	165	0.70	6.3x7	205	0.48	8x7	350	0.35
150	6.3x7	178	0.60	8x7	230	0.45	8x7	370	0.32
180	8x7	190	0.58	8x7	250	0.45	8x7	400	0.30
220	8x7	200	0.50	8x7	280	0.35	8x7	430	0.26
330	8x7	350	0.35	8x9	320	0.30	8x9	500	0.22
470	8x9	400	0.30	10x9	430	0.22			

WV Cap(μF)	25			35		
	Size	Ripple	Impedance	Size	Ripple	Impedance
6.8				4x7	70	3.3
10	4x7	70	3.0	5x7	110	1.7
22	5x7	110	1.70	6.3x7	160	0.8
33	6.3x7	160	0.80	8x7	200	0.5
47	8x7	200	0.50	8x7	245	0.45
68	8x7	200	0.50	8x7	280	0.42
100	8x7	250	0.35			
150	8x7	340	0.40			
180	8x9	450	0.25			
220	8x9	600	0.22			
330	10x9	750	0.15			

Ripple Current (mA, rms) at 105°C 100KHz
 Max Impedance (Ω) at 20°C 100 KHz