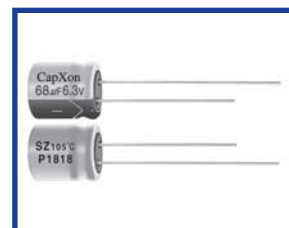


SZ Series 7-9 mm Low Impedance

Features

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



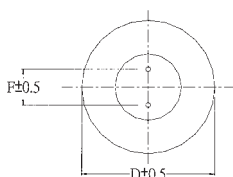
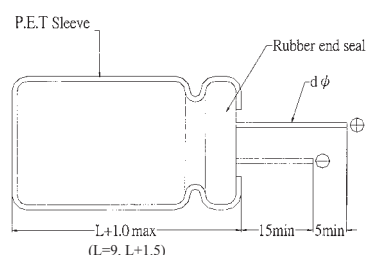
Specifications

Item	Performance Characteristics					
Operating Temperature Range	-55 to +105℃					
Rated Voltage Range	6.3 to 35 VDC					
Capacitance Range	6.8 to 330 μF					
Capacitance Tolerance	±20%(120Hz,+20℃)					
Leakage Current (+20℃,max.)	I≤0.01 CV or 3 (μA) After 2 minutes,whichever is greater measured with rated working voltage applied.					
Dissipation Factor (tan δ , at 20℃ , 120Hz)	Working Voltage(VDC)					
	6.3	10	16	25	35	
Low Temperature Characteristics (at 120Hz)	D.F.(%)max.					
	18	16	14	12	12	
	Impedance ratio max					
	Rated Voltage(VDC)					
	6.3	10	16	25	35	
	Z-25℃／Z+20℃					
	2	2	2	2	2	
	Z-55℃／Z+20℃					
	3	3	3	3	3	
Endurance	Test condition					
	Duration time :1000Hrs					
	Ambient temperature :+105℃					
	Applied voltage :Rated DC working voltage					
	After test requirement at +20℃					
	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℃					
	Applied voltage :None					
	After test requirement at +20℃: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(µ F)\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 (mA _{rms} /105°C /100KHz)	Max ESR(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 (mA _{rms} /105°C /100KHz)	Max ESR(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