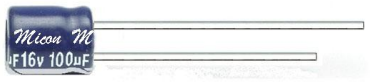
SZE series

Features

- Operating temperature range-55to+105 ℃
- 105℃,1000 hours assured
- For detail specifications, please refer to Engineering Bulletin No.E121
- RoHS Compliant



Specifications

Item	Performance Characteristics
Operating Temperature Range	-55~+105℃
Rate Voltage Range	6.3~35with rate working voltage applied
Capacitance Range	6.8~330μF
Capacitance Tolerance	±20%（120Hz，+20℃）
Leakage current （+20℃,max.）	I≤0.01CV 或 3（μA）
	After 2 minutes,whichever is greater measured
Dissipation factor （tgδ）	Rated Voltage(VDC) 6.3 10 16 25 35 D.F(%)max 18 16 14 12 12 For capacitance>1000μF , Add 2% per another 1000μF (120Hz，+20℃)
Low Temperature Characteristics （120Hz）	Impedance ratio max. Rated Voltage(VDC) 6.3 10 16 25 35 Z-25℃/ Z+20℃ 4 3 2 2 2 Z-55℃/ Z+20℃ 6 4 3 3 3 For capacitance>1000μF , Add 0.5 per another 1000μF For Z-25℃/ Z+20℃ Add 1.0 per another 1000μF For Z-55℃/ Z+20℃
Load Life	Test conditions Duration time : 1000Hrs Ambient temperature : +105℃ Applied voltage : Rated DC working voltage After test requirements : Resumed 16 hours at normal temperature 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 :1000Hrs Ambient temperature :+105℃ Applied voltage :None After test requirement at +20℃:Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DCworking voltage for 30 minutes.

Multiplier for Ripple Currentvs. Frequency

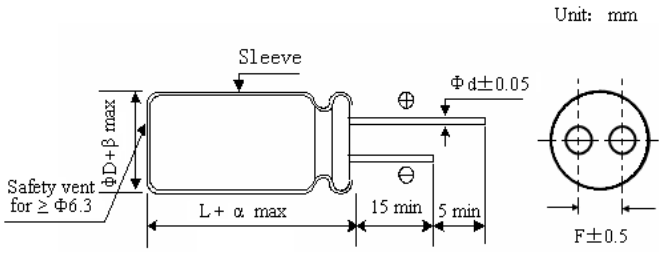
CAP(μF) Frequency (Hz)	50(60)	120	400	1K	10K	50K-100K
CAP≤10	0.47	0.59	0.76	0.85	0.97	1
10<CAP≤100	0.52	0.65	0.80	0.89	0.97	1
100<CAP≤1000	0.58	0.72	0.84	0.90	0.98	1

Multiplier for Ripple Current vs. Temperature

Temperature℃	60	70	85	105
Multiplier	1.8	1.5	1.3	1.0

SZE series

Diagram of Dimensions：（unit:mm）



DΦ	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
dΦ	0.45		0.5	

Case Size

ΦD×L(mm)

Voltage	6.3V			10V			16V		
Cap(μF)	Case Size	Ripple Current	Impedance	Case Size	Ripple Current	Impedance	Case Size	Ripple Current	Impedance
22				4×7	70	3.30	5×7	115	1.70
33	5×7	110	1.70	5×7	110	1.70	6.3×7	160	0.80
47	5×7	110	1.70	5×7	160	0.80	6.3×7	160	0.80
68	6.3×7	160	0.80	6.3×7	160	0.80	8×7	200	0.50
100	6.3×7	160	0.80	6.3×7	200	0.50	8×7	200	0.45
120	6.3×7	165	0.70	6.3×7	205	0.48	8×7	350	0.35
150	6.3×7	178	0.60	8×7	230	0.45	8×7	370	0.32
180	8×7	190	0.58	8×7	250	0.45	8×7	400	0.30
220	8×7	200	0.50	8×7	280	0.35	8×7	430	0.26
330	8×7	350	0.35	8×9	320	0.30	8×9	500	0.22
470	8×9	400	0.30	10×9	430	0.22			

Voltage	25V			35V		
Cap(μF)	Case Size	Ripple Current	Impedance	Case Size	Ripple Current	Impedance
6.8				4×7	70	3.30
10	4×7	70	3.0	5×7	110	1.70
22	5×7	110	1.70	6.3×7	160	0.80
33	6.3×7	160	0.80	8×7	200	0.50
47	8×7	200	0.50	8×7	245	0.45
68	8×7	200	0.50	8×7	280	0.42
100	8×7	250	0.35			
150	8×7	340	0.40			
180	8×9	450	0.25			
220	8×9	600	0.22			
330	10×9	750	0.15			

Ripple Current (mA,rms) at 105℃ 100KHz

Max lmpedance (Ω) at 20℃ 100KHz