

SI series

- Enabled high ripple current
Ultra low impedance at high frequency range.
- For computer motherboard.
- RoHS Compliance.
- 耐高紋波電流，高頻超低阻抗。
- 專為電腦主板設計。



SPECIFICATIONS

Items 項目	Characteristics 特性			
Capacitance Tolerance 靜電容量誤差	±20% (120Hz, 20°C)			
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C			
Rated Voltage Range 工作電壓範圍	6.3 ~ 16V			
Leakage Current 洩漏電流	I ≤ 0.01CV or 3µA (After 2 minutes application of DC working voltage, at 20°C)			
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120 Hz. Temperature: 20°C.			
	Rated Voltage (V)	6.3	10	16
	tan δ (Max)	0.22	0.19	0.16
When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase. (20°C · 120Hz)				
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.			
	Rated Voltage (V)	6.3	10	16
	Z (-40°C) / Z (20°C)	3	3	3
Load Life 負荷壽命	2000hours, with application of working voltage at 105°C			
	Capacitance Change	Within ±25% of Initial Value		
	tan δ	200% or less of Initial Specified Value		
	Leakage Current	Initial Specified Value or less		
Shelf Life 放置壽命	1,000hours, no voltage applied, at 105°C. After Test: U _R to be applied for 30 minutes, 24 to 48hours before measurement.			
	Capacitance Change	Within ±25% of Initial Value		
	tan δ	200% or less of Initial Specified Value		
	Leakage Current	Initial Specified Value or less		
Standards 參照標準	JIS C 5101-4-1 and JIS C 5101-2			

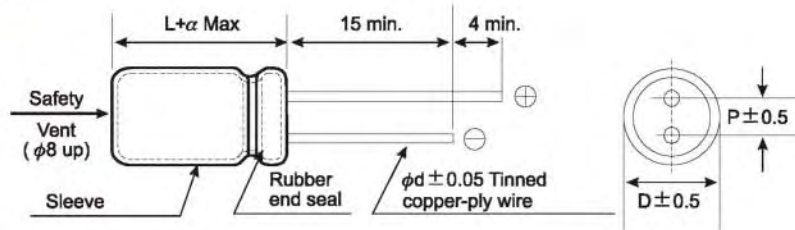
PERMISSIBLE RIPPLE CURRENT

Frequency Coefficient

Capacitance (µF)	Frequency (Hz)				
	50	120	1K	10K	100K
220 ~ 680	0.60	0.70	0.85	0.95	1.00
820 ~ 1800	0.65	0.75	0.90	0.98	1.00
2200 ~ 12000	0.75	0.80	0.95	1.00	1.00

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DIMENSIONS (mm)



ϕD	8	10	13	16	18
P	3.5	5.0	5.0	7.5	7.5
ϕd	0.5	0.6	0.6	0.8	0.8

α	(L < 16)	1.0
	(L \geq 16)	2.0

STANDARD RATINGS

DxL (mm); R.C.: (mA rms) at 105°C, 100KHz; IMP (Ω max) at 20°C, 100KHz.

Cap (μF)	WV(V) (Code) Item	6.3 (0J)			10 (1A)			16 (1C)		
		D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
220					8x12	1050	0.065	8x12	1065	0.032
330					8x12	1050	0.042	8x12	1150	0.031
470					8x12	1140	0.030	8x12	1150	0.030
								10x13	1550	0.025
560		8x12	1150	0.030				8x16	1450	0.027
								8x16	1490	0.028
680					8x12	1140	0.030	10x13	1550	0.025
					10x13	1550	0.025	8x20	1880	0.017
								10x16	2000	0.018
820		8x12	1150	0.032	10x13	1550	0.024	10x16	2000	0.018
		8x12	1150	0.030	8x16	1490	0.028	8x20	1860	0.017
1000		8x16	1490	0.027	8x20	1880	0.018	10x16	2000	0.018
		10x13	1550	0.026	10x16	2000	0.017	10x20	2550	0.013
1200		8x16	1490	0.028						
		8x20	1950	0.016	8x20	1880	0.018			
1500		10x13	1540	0.025				10x20	2550	0.012
		10x16	2000	0.018	10x16	2000	0.018			
		8x20	1950	0.016				10x25	2800	0.012
1800		10x16	2000	0.018				13x21	2800	0.011
		8x20	1950	0.016						
2200		10x16	2000	0.018	10x25	2800	0.012	10x30	2850	0.011
		10x20	2550	0.013						
2700		10x20	2580	0.012	13x21	3000	0.011	13x25	2910	0.010
		10x25	2800	0.012						
3300		13x21	3000	0.011	13x25	2900	0.010	16x26	3060	0.009
5600		13x25	2900	0.010	16x26	3020	0.009	18x25	3250	0.008
6800		13x25	2990	0.010	16x26	3080	0.009			
8200		16x26	3080	0.009	18x25	3250	0.008			
12000		18x25	3260	0.008						

※ 13mm may be replaced by 12.5mm upon customer's request.