

SDA series

- On the basis of SD series ripple promotion product.
- Suitable for LCD TV Power, SMPS.
- RoHS Compliance.
- SD系列紋波提升品。
- 適用於液晶顯示電源及開關電源等。



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		-25 ~ +105°C		
Rated Voltage Range 額定電壓範圍	400VDC		450 ~ 500VDC		
Leakage Current 洩漏電流	$I \leq 0.03CV + 20 (\mu A)$ (After 1 minutes application of DC rated voltage, at 20 °C)				
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C				
	Rated Voltage(V)	400	450	460	500
	tan δ(Max)	0.15	0.20	0.20	0.20
When nominal capacitance over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF .					
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.				
	Rated Voltage(V)	400	450	460	500
	Z(-25°C)/Z(20°C)	3	3	6	6
	Z(-40°C)/Z(20°C)	6	-	-	-
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C.				
	Capacitance Change	Within ± 20% 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	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 105°C without voltage applied. Before the measurement. The capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.				
	Capacitance Change	Within ± 20% 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 (IEC 60384)				

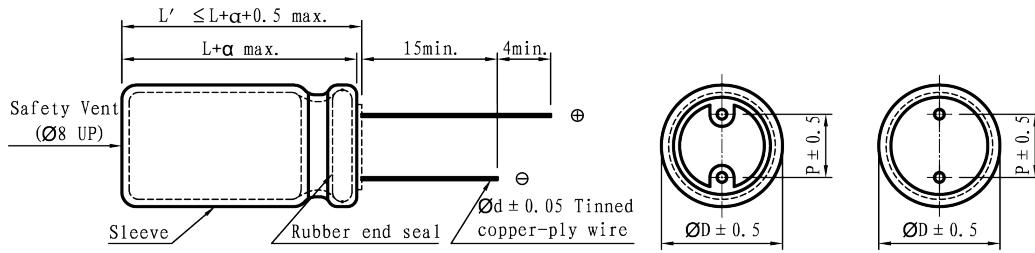
Frequency Coefficient of Permissible Ripple Current

Capacitance (µF)	Frequency (Hz)				
	120	10K	30K	50K	100K
10 ~ 150	1.00	1.50	1.60	1.75	2.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use . The rms ripple current has to be reduced.

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DIMENSIONS(mm)



ϕD	10	13	16	18	20	22
P	5.0	5.0	7.5	7.5	10	10
ϕd	0.6	0.6	0.8	0.8	0.8	0.8

α	(L < 16) 1.0
	(L \geq 16) 2.0

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105°C 120Hz.

Cap (μF)	V	400				450				460				500			
		Item	D x L	R.C.		D x L	R.C.		D x L	R.C.		D x L	R.C.				
				120Hz	100KHz		120Hz	100KHz		120Hz	100KHz		120Hz	100KHz			
10		10x16	120	240	10x20	170	340	10x20	150	300	13x21	83	166				
15		10x20	230	460	13x21	230	460	13x21	200	400	13x21	110	220				
22		13x21	300	600	13x21	350	700	13x25	350	700	13x25	200	400				
33		13x21	380	760	13x25	400	800	16x25	480	960	16x25	300	600				
47		13x25	400	800	16x25	530	1060	18x26	530	1060	18x26	330	660				
56		16x25	550	1100	18x26	630	1260	18x26	600	1200	18x32	350	700				
68		16x25	700	1400	18x32	690	1380	18x32	690	1380	18x35	480	960				
82		18x26	780	1560	18x32	750	1500	18x32	750	1500	18x40	590	1180				
100		18x32	830	1660	18x35	800	1600	18x35	800	1600	18x45	680	1360				
120		18x35	900	1800	18x40	950	1900	18x40	950	1900	20x45	730	1460				
150		18x40	1000	2000	18x45	1050	2100	20x45	1300	2600	22x45	780	1560				

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