

SG series

Features

- ★ High voltage and high reliability, Large permissible ripple current
- ★ Low ESR at high frequency range
- ★ Applicable to the power circuit and industrial electronic equipment (such as: military products, high-end industrial power, LED lighting drive power supply), can satisfy lead-free soldering conditions.

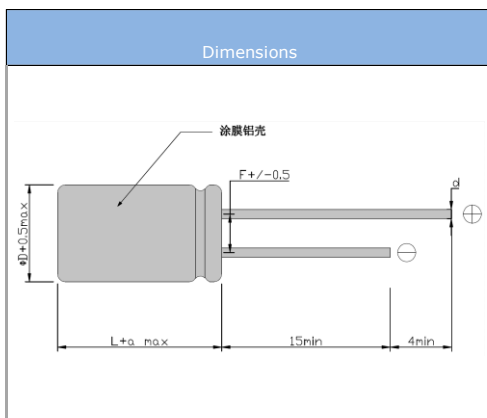
适用于电源电路及工业电子设备（如：军工产品、高端工业电源、LED照明驱动电源等），可满足无铅焊锡条件。

Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+105℃	
Rated Voltage Range	160~250vdc	
Capacitance Tolerance	±20%(120Hz,+20℃)	
Leakage Current(+20℃,max)	$\leq 0.2CV$ or 500uA whichever is greater (After rated voltage applied for 2 minutes)	
Dissipation Factor(tanδ,at 20℃,120Hz)	Not exceed the value specified	
ESR(100KHz)	Not exceed the value specified	
Endurance 105℃,5000h,at rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation Factor	Not exceed 150% of the value specified
Moisture Resistance Stored at 60℃,RH90~95%,1000h	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation Factor	Not exceed 150% of the value specified

Frequency Coefficient for Ripple Current

Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.05	0.3	0.7	1



Size

Unit: mm

ΦDXL	ΦD+0.5 max.	a	F±0.5	Φd±0.05	
5X7/8	5	1	2	0.45/0.5	
5X9/10/11	5	1	2	0.5	
5X7E/9E/10E/11E	5.5	1	2.5	0.5	
6.3X5/6/7/8/9	6.3	1	2.5	0.5/0.6	
6.3X11/12/14	6.3	1	2.5	0.6	
8X7/8	8	1	3.5	0.6	
8X8P/11P/12P	8	1.5	2.5	0.6	
8X11.5/12.5/15	8	1.5	3.5	0.6	
10X11.5/12.5/13.5/15	10	1.5	5	0.6	

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Dimensions & Characteristics

Ripple Current(mA.rms) at 105℃,100KHz

W.V (V)	Capacitance (uF)	LC. (uA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100KHz)	Rated Ripple Current (mA,rms)	Size ΦDXL(mm)	Part Number
160	4.7	300	12	130	1000	8X11.5	SG475M160F1150
160	12	384	12	130	1000	8X11.5	SG126M160F1150
200	1	300	15	300	600	8X11.5	SG105M200F1150
200	2.2	300	15	300	600	10X12.5	SG225M200G1250
250	1	300	15	300	600	8X11.5	SG105M250F1150
250	2.2	300	15	300	600	10X12.5	SG225M250G1250