

SM 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	2.5~100vdc	
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℃,2000h,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

Dimensions		Size						
		Unit: mm						
		ΦDXL	A	H	W	P	K	L
		6.3x5	6.6	8.6max	0.5~0.9	1.8	0.35±0.2	6.2
		6.3x7	6.6	8.6max	0.5~0.9	1.8	0.35±0.2	7.6
		8x8	8.3	10.3max	0.8~1.1	3.7	0.5±0.2	9.8
		10x12.5	10.3	12.3max	0.8~1.1	3.9	0.5±0.2	13.6

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
6.3	330	500	12	25	2650	6.3X5	SM337M6R3E0500
6.3	330	500	12	25	2650	6.3X7	SM337M6R3E0700
6.3	470	592.2	12	25	2650	6.3X7	SM477M6R3E0700
6.3	680	856.8	12	21	5100	10X12.5	SM687M6R3G1250
6.3	820	1033.2	12	21	5500	10X12.5	SM827M6R3G1250
6.3	1000	1260	12	21	5500	10X12.5	SM108M6R3G1250
10	150	500	12	28	2560	6.3X7	SM157M010E0700
10	220	500	12	28	2560	6.3X5	SM227M010E0500
10	470	940	12	21	5100	8X8	SM477M010F0800
10	470	940	12	21	5300	10X12.5	SM477M010G1250
10	560	1120	12	21	5300	8X8	SM567M010F0800
10	560	1120	12	21	5300	10X12.5	SM567M010G1250
10	680	1360	12	21	5300	8X8	SM687M010F0800
10	1000	2000	12	21	5300	10X12.5	SM108M010G1250
10	1500	3000	12	21	5300	10X12.5	SM158M010G1250
16	82	300	12	28	1800	6.3X7	SM826M016E0700
16	100	320	12	28	1800	6.3X5	SM107M016E0500
16	100	320	12	28	1800	6.3X7	SM107M016E0700
16	120	384	12	28	1800	6.3X7	SM127M016E0700
16	270	864	12	21	2420	8X8	SM277M016F0800
16	330	1056	12	21	2420	8X8	SM337M016F0800
16	330	1056	12	21	5050	10X12.5	SM337M016G1250
16	470	1504	12	21	4200	8X8	SM477M016F0800
16	470	1504	12	21	5050	10X12.5	SM477M016G1250
16	560	1792	12	21	5050	10X12.5	SM567M016G1250
16	680	2176	12	21	5050	10X12.5	SM687M016G1250
16	820	2624	12	21	5050	10X12.5	SM827M016G1250
25	68	340	12	40	1800	6.3X7	SM686M025E0700
25	100	500	12	40	1800	6.3X5	SM107M025E0500
25	100	500	12	40	1800	6.3X7	SM107M025E0700
25	220	1000	12	40	1800	8X8	SM227M025F0800
25	330	1000	12	40	1800	8X8	SM337M025F0800
25	330	1000	12	40	3500	10X12.5	SM337M025G1250
25	470	1000	12	40	3100	8X8	SM477M025F0800
35	100	700	12	40	2420	6.3X7	SM107M035E0700
80	22	352	12	60	2420	8X8	SM226M080F0800