

# 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.

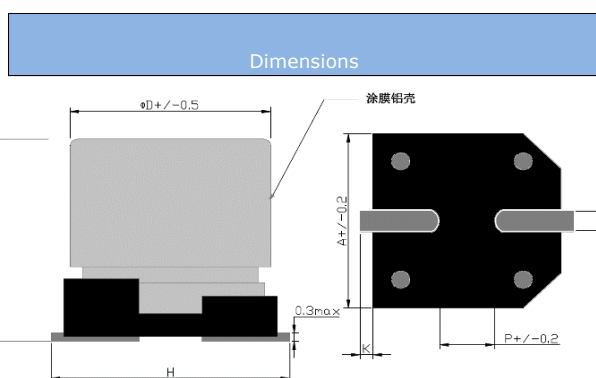
适用于电源电路及工业电子设备（如：军工产品、高端工业电源、LED照明驱动电源等），可满足无铅焊锡条件。

## Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~25vdc	
Capacitance Tolerance	±20%(120Hz,+20°C)	
Leakage Current(+20°C,max)	≤0.2CV(uA,after 2 minutes)	
Dissipation Factor(tanδ,at 20°C,120Hz)	Not exceed the value specified	
ESR(100KHz)	Not exceed the value specified	
Endurance 105°C,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°C,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	A	H	W	P	K
6.3x7	6.6	7.8max	0.65±0.1	1.8	0.35±0.2
10x12.5	10.3	12max	0.9±0.2	4.6	0.7±0.2

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## Dimensions & Characteristics

Ripple Current(mA.rms) at 105°C,100KHz

W.V (V)	Capacitance ( $\mu$ F)	LC. ( $\mu$ A,2min)	tg $\delta$ (120Hz,20°C)	ESR (m $\Omega$ ,100KHz)	Rated Ripple Current (mA,rms)	Size $\Phi$ DXL(mm)	Part Number
6.3	330	416	12	25	2650	6.3X7	SM337M6R3E0700
6.3	470	592	12	25	2650	6.3X7	SM477M6R3E0700
6.3	680	857	12	21	3650	10X12.5	SM687M6R3G1250
6.3	820	1033	12	21	5500	10X12.5	SM827M6R3G1250
6.3	1000	1260	12	21	5500	10X12.5	SM108M6R3G1250
10	150	300	12	28	2560	6.3X7	SM157M010E0700
10	470	940	12	21	5300	10X12.5	SM477M010G1250
10	560	1120	12	21	5300	10X12.5	SM567M010G1250
10	1000	2000	12	21	5300	10X12.5	SM108M010G1250
16	82	300	12	28	2420	6.3X7	SM826M016E0700
16	100	320	12	28	2420	6.3X7	SM107M016E0700
16	120	384	12	28	2420	6.3X7	SM127M016E0700
16	330	1056	12	21	5050	10X12.5	SM337M016G1250
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	330	1650	12	21	3500	10X12.5	SM337M025G1250