

Surface Mount Type

SS Ultra-miniaturized Series



Features

- High voltage (35V, max)
- Ultra-miniaturized (Height 0.9mm)
- Excellent Ripple Absorption (5600mA, max)
- RoHS & REACH Compliance, Halogen free

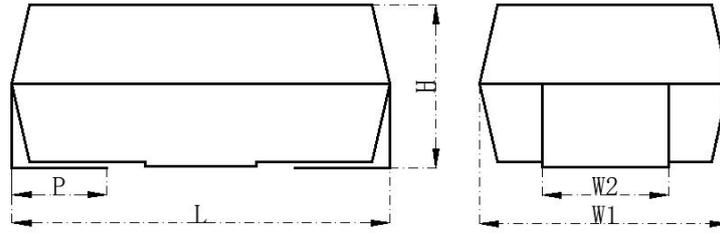
Main Applications

- Ultra-slim Laptops
- Ultra-miniaturized Drones
- Other Ultra-thin Circuit Boards

Specifications

series	SS	
Operating Temp. Range	-55°C~105°C	
Rated Voltage Range	2V~35V	
Rated Capacitance Range	5μF~330μF	
DC Leakage Current (LC)	2V~6.3V: ≤0.1CV, 10V~35V: ≤0.3CV (Rated Voltage, 2minutes)	
Capacitance Tolerance	K(-10%~+10%), M(-20%~+20%), Y(-35%~+10%) or customized	
Dissipation Factor (tgδ)	≤ 0.06 (Frequency: 120Hz, Temp.:20°C)	
Surge Voltage (V)	2V~16V:1.25*VR, 20V~25V:1.15*VR,35V:1.05*VR (15°C~35°C)	
Endurance	Temp.: 105 ±3°C	Appearance: No macroscopi damage
	Applied Voltage: Rated Voltage(DC)	Capacitance Change: -20%~+20% of initial value
	Test time: 2000h	Dissipation Factor (tgδ): ≤0.12
	Stabilizing time: 1~2h	Leakage Current: ≤specified value
Damp heat, Steady state	Temp.: 60 ±2°C	Appearance: No macroscopi damage
	Humidity: 90 ⁺² ₋₃ %RH	Capacitance Change: -20%~+60% of initial value (4V~35V), -20%~+70% of initial value (2V~2.5V)
	No load, Test time: 500h	Dissipation Factor (tgδ): ≤0.12
	Stabilizing time: 1~2h	Leakage Current: ≤300% of specified value

Product Size



Series	L (mm)±0.4	W1 (mm)±0.3	H (mm)±0.2	P (mm)±0.2	W2 (mm)±0.1
SS	7.3	4.3	0.9	1.3	2.4

Characteristics List

Product Part No.	Rated Voltage (V)	Capacitance (μF) *1	D.F. *2	ESR (mΩ) *3	R.C. (mA) *4	L.C. (μA) *5
SS0D101MR045A0	2	100	0.06	45	3000	20
SS0D151MR045A0		150	0.06	45	3000	30
SS0D221MR030A0		220	0.06	30	3500	44
SS0D221MR012A0		220	0.06	12	5600	44
SS0D331YR012A0		330	0.06	12	5600	66
SS0E101MR045A0	2.5	100	0.06	45	3000	25
SS0E151MR045A0		150	0.06	45	3000	37.5
SS0E221MR030A0		220	0.06	30	3500	55
SS0E221MR012A0		220	0.06	12	5600	55
SS0G121MR015A0	4	120	0.06	15	5100	48
SS0J470MR045A0	6.3	47	0.06	45	3000	29.6
SS0J560MR045A0		56	0.06	45	3000	35.3
SS0J680MR045A0		68	0.06	45	3000	42.8
SS0J680MR015A0		68	0.06	15	5100	42.8
SS0J820MR030A0		82	0.06	30	3500	51.7
SS0J101MR030A0		100	0.06	30	3500	63
SS0J151MR030A0		150	0.06	30	3500	94.5
SS1A470MR045A0		10	47	0.06	45	3000
SS1A470MR040A0	47		0.06	40	3200	141
SS1A560MR045A0	56		0.06	45	3000	168
SS1A680MR045A0	68		0.06	45	3000	204
SS1A820MR030A0	82		0.06	30	3500	246
SS1A101MR030A0	100		0.06	30	3500	300
SS1B330MR045A0	12.5	33	0.06	45	3000	123.8
SS1B470MR045A0		47	0.06	45	3000	176.3
SS1B560MR030A0		56	0.06	30	3500	210
SS1B680MR030A0		68	0.06	30	3500	255
SS1C150MR040A0	16	15	0.06	40	3200	72
SS1C220MR040A0		22	0.06	40	3200	105.6
SS1C330MR040A0		33	0.06	40	3200	158.4
SS1C330MR045A0		33	0.06	45	3000	158.4
SS1C470MR045A0		47	0.06	45	3000	225.6
SS1C560MR030A0		56	0.06	30	3500	268.8
SS1C680MR030A0		68	0.06	30	3500	326.4
SS1D100MR060A0		20	10	0.06	60	1400
SS1D100MR040A0	10		0.06	40	3200	60
SS1D150MR060A0	15		0.06	60	1400	90
SS1D150MR040A0	15		0.06	40	3200	90
SS1D220MR060A0	22		0.06	60	1400	132
SS1D220MR040A0	22		0.06	40	3200	132
SS1D330MR045A0	33		0.06	45	3000	198
SS1E100MR060A0	25		10	0.06	60	1400
SS1E100MR040A0		10	0.06	40	3200	75
SS1E150MR060A0		15	0.06	60	1400	112.5
SS1E150MR040A0		15	0.06	40	3200	112.5
SS1E220MR045A0		22	0.06	45	3000	165
SS1V050MR100A0		35	5	0.06	100	900
SS1V100MR100A0	10		0.06	100	900	105
SS1V100MR040A0	10		0.06	40	3200	105

Note:

*1: 120Hz, +20±1°C

*2: 120Hz, +20±1°C

*3: 100KHz, +20±1°C

*4: 100KHz, +45±1°C

*5: Rated Voltage, 2 minutes

Temperature Coefficient for Ripple Current

Products	T≤45°C	45°C<T≤85°C	85°C<T≤105°C	Products
2 V~6.3 V	1.0	0.7	0.25	2 V~6.3 V
10 V~35 V	1.0	0.8	0.5	10 V~35 V

表面贴装型

SS极致小型化系列



产品特点

- 高电压（35V，max）
- 极致小型化（高度 0.9mm）
- 耐纹波电流能力好（5600mA，max）
- 环保（符合无卤、RoHS和REACH规定）

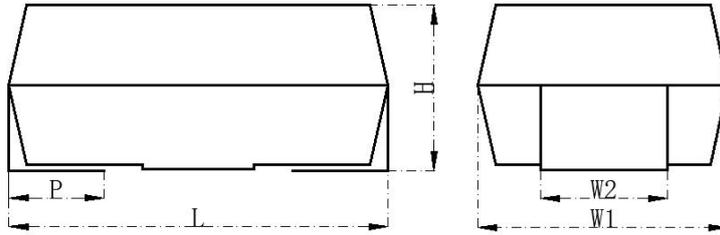
产品应用

- 超薄型笔记本电脑
- 超小型化无人机
- 其他超薄型电路板

产品规格

系列	SS	
类别温度	-55°C~105°C	
额定电压	2V~35V	
静电容量范围（120Hz，20°C）	5μF~330μF	
漏电流（LC）	2V~6.3V: ≤0.1CV, 10V~35V: ≤0.3CV（额定电压，2分钟）	
静电容量容差	K档(-10%~+10%), M档(-20%~+20%), Y档(-35%~+10%) 或定制其他档位	
损耗角正切（tgδ）	≤ 0.06（频率：120Hz，温度：20°C）	
浪涌电压（V）	2V~16V:1.25*VR, 20V~25V:1.15*VR, 35V:1.05*VR（15°C~35°C）	
耐久性	温度： 105 ±3°C	外观：无明显损伤
	施加电压：额定电压(DC)	容量变化：初始值的-20%~+20%
	测试时间：2000h	损耗角正切（tgδ）：≤0.12
	恢复时间：1~2h	漏电流：≤规定值
高温高湿	温度： 60 ±2°C	外观：无明显损伤
	湿度： 90 ⁺² ₋₃ %RH	容量变化：初始值的-20%~+70%（2V~2.5V），初始值的-20%~+60%（4V~35V）
	空载，测试时间：500h	损耗角正切（tgδ）：≤0.12
	恢复时间：1~2h	漏电流：≤规定值的300%

产品尺寸



系列	L (mm)±0.4	W1 (mm)±0.3	H (mm)±0.2	P (mm)±0.2	W2 (mm)±0.1
SS	7.3	4.3	0.9	1.3	2.4

特性一览表

产品编号	额定电压 (V)	容量 (μF) *1	损耗 *2	ESR (mΩ) *3	纹波电流 (mA) *4	漏电流 (μA) *5
SS0D101MR045A0	2	100	0.06	45	3000	20
SS0D151MR045A0		150	0.06	45	3000	30
SS0D221MR030A0		220	0.06	30	3500	44
SS0D221MR012A0		220	0.06	12	5600	44
SS0D331YR012A0		330	0.06	12	5600	66
SS0E101MR045A0	2.5	100	0.06	45	3000	25
SS0E151MR045A0		150	0.06	45	3000	37.5
SS0E221MR030A0		220	0.06	30	3500	55
SS0E221MR012A0		220	0.06	12	5600	55
SS0G121MR015A0	4	120	0.06	15	5100	48
SS0J470MR045A0	6.3	47	0.06	45	3000	29.6
SS0J560MR045A0		56	0.06	45	3000	35.3
SS0J680MR045A0		68	0.06	45	3000	42.8
SS0J680MR015A0		68	0.06	15	5100	42.8
SS0J820MR030A0		82	0.06	30	3500	51.7
SS0J101MR030A0		100	0.06	30	3500	63
SS0J151MR030A0		150	0.06	30	3500	94.5
SS1A470MR045A0	10	47	0.06	45	3000	141
SS1A470MR040A0		47	0.06	40	3200	141
SS1A560MR045A0		56	0.06	45	3000	168
SS1A680MR045A0		68	0.06	45	3000	204
SS1A820MR030A0		82	0.06	30	3500	246
SS1A101MR030A0	100	0.06	30	3500	300	
SS1B330MR045A0	12.5	33	0.06	45	3000	123.8
SS1B470MR045A0		47	0.06	45	3000	176.3
SS1B560MR030A0		56	0.06	30	3500	210
SS1B680MR030A0		68	0.06	30	3500	255
SS1C150MR040A0	16	15	0.06	40	3200	72
SS1C220MR040A0		22	0.06	40	3200	105.6
SS1C330MR040A0		33	0.06	40	3200	158.4
SS1C330MR045A0		33	0.06	45	3000	158.4
SS1C470MR045A0		47	0.06	45	3000	225.6
SS1C560MR030A0		56	0.06	30	3500	268.8
SS1C680MR030A0		68	0.06	30	3500	326.4
SS1D100MR060A0	20	10	0.06	60	1400	60
SS1D100MR040A0		10	0.06	40	3200	60
SS1D150MR060A0		15	0.06	60	1400	90
SS1D150MR040A0		15	0.06	40	3200	90
SS1D220MR060A0		22	0.06	60	1400	132
SS1D220MR040A0		22	0.06	40	3200	132
SS1D330MR045A0		33	0.06	45	3000	198
SS1E100MR060A0	25	10	0.06	60	1400	75
SS1E100MR040A0		10	0.06	40	3200	75
SS1E150MR060A0		15	0.06	60	1400	112.5
SS1E150MR040A0		15	0.06	40	3200	112.5
SS1E220MR045A0		22	0.06	45	3000	165
SS1V050MR100A0	35	5	0.06	100	900	52.5
SS1V100MR100A0		10	0.06	100	900	105
SS1V100MR040A0		10	0.06	40	3200	105

备注:

*1: 120Hz, +20±1℃

*2: 120Hz, +20±1℃

*3: 100KHz, +20±1℃

*4: 100KHz, +45±1℃

*5: 额定电压, 2分钟

纹波电流温度系数

产品	T≤45℃	45℃<T≤85℃	85℃<T≤105℃	产品
2 V~6.3 V	1.0	0.7	0.25	2 V~6.3 V
10 V~35 V	1.0	0.8	0.5	10 V~35 V