

Type: SX1

Class X1 and X2 Capacitors

Safety Standards 安規

- UL and CUL – UL 60384-14
- ENEC – IEC 60384-14 Ed. 3.0
- CQC – GB/T14472-1998

Features 特性

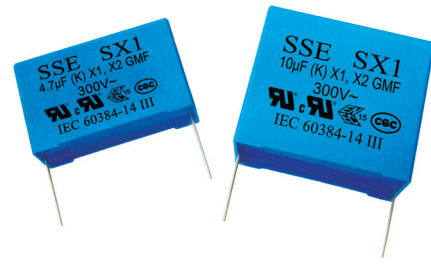
- Provide interference suppression and safety approval.
- Self-healing characteristic.
- Active and passive flame retardant (UL94 V-0).
- 雜音抑制及電源跨接，通過多國安規認證。
- 具自愈性。
- 絕佳的阻燃防火功能 (UL94 V-0)。

Applications 用途

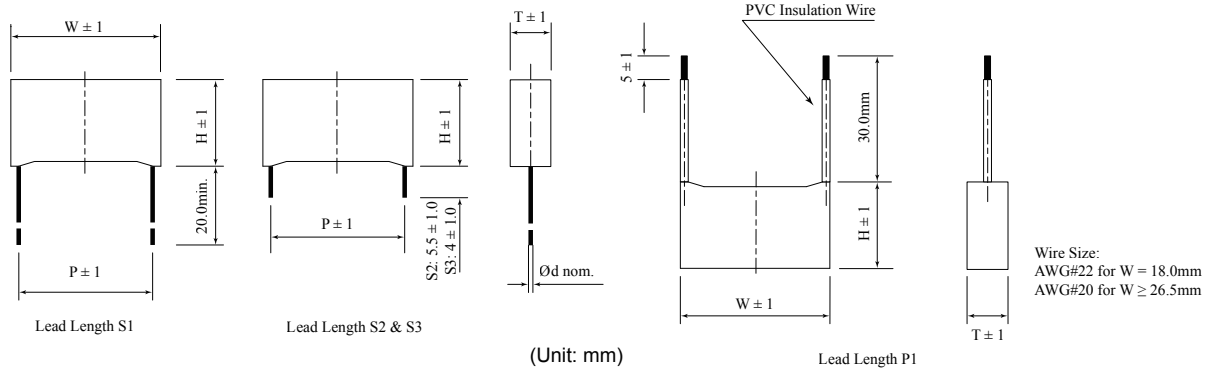
- Line bypass, antenna coupling, across-the-line, and spark killer circuits.
- Available for EMI filter.
- Switching power supply application.
- Business appliances such as UPS, power supply, LCD monitor, adapter, etc.
- Household appliances such as blender, fan, air conditioner, washing machine, refrigerator, bread maker, audio, TV, etc.
- 電源雜音抑制、開關接點保護、火花消除、天線耦合及電源旁路使用。
- EMI 電磁濾波。
- 抑制開關電源時產生的突波電壓。
- 商用電器：不斷電系統、電源供應器、LCD顯示器、變壓器等等。
- 家庭電器：果汁機、電風扇、室內空調、洗衣機、電冰箱、製麵包機、音響、視聽產品等等。

Specifications 規格

Rated Voltage 額定電壓	300VAC, 50/60Hz
Capacitance Range 電容量範圍	0.0022 ~ 10 μ F
Capacitance Tolerance 容量誤差	J (\pm 5%), K (\pm 10%), M (\pm 20%)
Dissipation Factor (DF) 損耗因數	\leq 0.1% at 1kHz and 20 $^{\circ}$ C
Withstand Voltage 耐電壓	1290VDC 60sec
Insulation Resistance (IR) 絕緣阻抗	C \leq 0.33 μ F, IR \geq 30,000M Ω C > 0.33 μ F, IR \geq 10,000M Ω / μ F
Climatic Category: In accordance with DIN40040 GMF 環境類別	G = Minimum Limit Temperature...-40 $^{\circ}$ C M = Maximum Limit Temperature...+100 $^{\circ}$ C (UL +105 $^{\circ}$ C) F = Humidity Category...Average relative humidity \leq 75%, 95% for 30 days per year, continuously; 85% for the remaining days, occasionally.

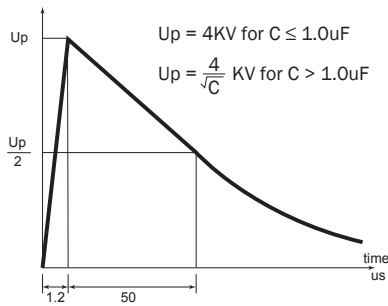


Dimensions 尺寸

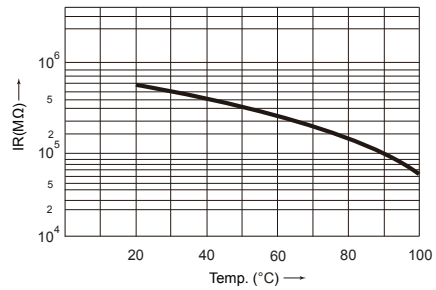


Surge Voltage Test 突波電壓測試曲線圖

According to IEC 60384-14

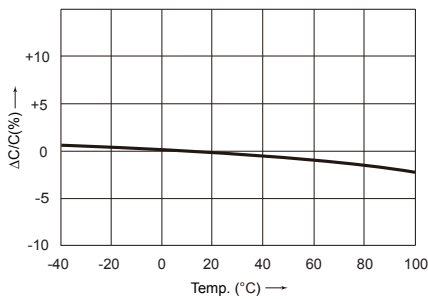


Insulation Resistance V.S. Temperature (Typical Values)

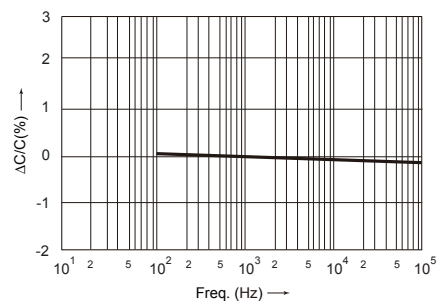


Temperature and Frequency Characteristics 溫度與頻率特性曲線圖

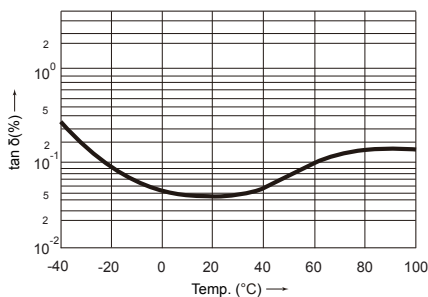
Capacitance Change V.S. Temperature (Typical Values)



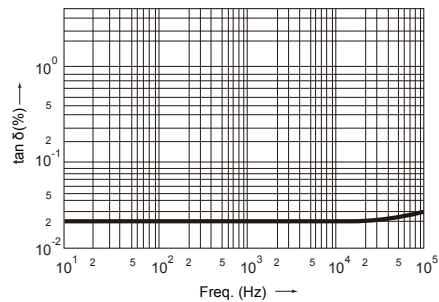
Capacitance Change V.S. Frequency (Typical Values)



Dissipation Factor V.S. Temperature at 10kHz (Typical Values)



Dissipation Factor V.S. Frequency (Typical Values)



Case Size List 產品尺寸

Capacitance (μF)	Rated Voltage (VAC)	Dimensions (Unit: mm)									
		W±1		H±1		T±1		P±1		d	
0.0047 / 0.0047 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.0056 / 0.0056 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.0068 / 0.0068 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.0082 / 0.0082 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.01 / 0.01 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.012 / 0.012 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.015 / 0.015 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.018 / 0.018 - 1	300	18	13	10	11	5	5	15	10	0.8	0.6
0.022 / 0.022 - 1	300	18	13	12	11	6	5	15	10	0.8	0.6
0.027 / 0.027 - 1	300	18	13	10	12	5	6	15	10	0.8	0.6
0.033 / 0.033 - 1	300	18	13	10	12	5	6	15	10	0.8	0.6
0.039	300	18		10		5		15		0.8	
0.047	300	18		10		5		15		0.8	
0.056	300	18		12		6		15		0.8	
0.068	300	18		12		6		15		0.8	
0.082	300	18		12		6		15		0.8	
0.1 / 0.1 - 1	300	18	13	12		6		15	10	0.8	0.6
0.12	300	18		13.5		7.5		15		0.8	
0.15 / 0.15 - 1	300	18		14.5	13.5	8.5	7.5	15		0.8	
0.18 / 0.18 - 1	300	26.5	18	16.5	16.5	7	8.5	22.5	15	0.8	
0.22	300	26.5		16.5		7		22.5		0.8	
0.22 - 1	300	18		16.5		8.5		15		0.8	
0.22 - 2	300	17		15.5		7.5		15		0.8	
0.27	300	26.5		17		8.5		22.5		0.8	
0.33	300	26.5		17		8.5		22.5		0.8	
0.33 - 1	300	17		16.5		9.5		15		0.8	
0.39	300	26.5		19		10		22.5		0.8	
0.47	300	26.5		19		10		22.5		0.8	
0.47 - 1	300	26.5		17		8.5		22.5		0.8	
0.47 - 2	300	17		19		11		15		0.8	
0.56	300	31.5		20		11		27.5		0.8	
0.6	300	31.5		20		11		27.5		0.8	
0.68	300	31.5		20		11		27.5		0.8	
0.68 - 1	300	26.5		19		10		22.5		0.8	
0.82	300	31.5		22.5		13		27.5		0.8	
1.0	300	31.5		22.5		13		27.5		0.8	
1.0 - 1	300	25		23.5		14		22.5		0.8	
1.0 - 2	300	30		21		11.5		27.5		0.8	
1.2	300	37		24		13.5		32.5		0.8	
1.2 - 1	300	31.5		22.5		13		27.5		0.8	
1.5	300	37		24		13.5		32.5		0.8	
1.5 - 1	300	31.5		25		14		27.5		0.8	
1.8	300	37		26.5		16		32.5		0.8	
2.2	300	37		28.5		18		32.5		0.8	
2.2 - 1 / 2.2 - 2	300	31	37	26	26.5	18	16	27.5	32.5	0.8	
2.7	300	37		28.5		18		32.5		0.8	
3.3	300	37		34		22		32.5		0.8	
3.9	300	37		34		22		32.5		0.8	
3.9 - 1	300	51		30.5		20		47.5		0.8	
4.7	300	51		30.5		20		47.5		0.8	
5.6 / 6.0	300	51		34		22		47.5		0.8	
6.8	300	51		35		24		47.5		0.8	
10	300	51		43.5		29		47.5		0.8	