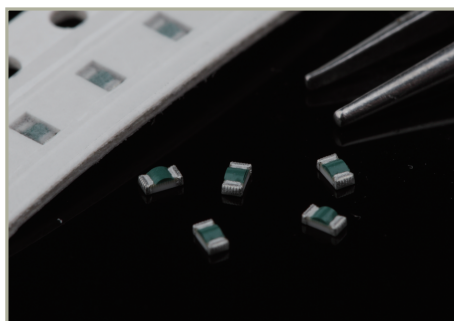




ESD サプレッサー 静電気抑制素子

特性：

- ・1608 mmサイズ [0603" size]
- ・RoHS 適合品
- ・鉛フリー/ハロゲンフリー
- ・両極性
- ・非常に低いキャパシタンス (0.15pF Max.)
- ・高速応答性
- ・低い漏れ電流 (<0.1nA)

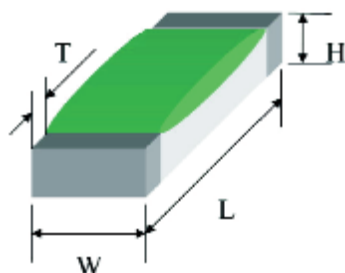
FEATURES :

- 0603/1608 size
- RoHS-Compliant Product
- Pb-Free / Halogen Free
- Bi-directional
- Ultra-low Capacitance
- Fast Response Time
- Low Leakage Current

1608 SGX

製品名：1608 SGX

寸法 DIMENSIONS:



Unit
単位 : mm (Inches)

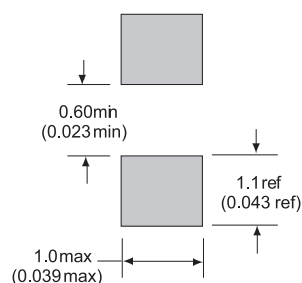
EIA Size	L	W	H *	T
1608SGX	1.60±0.15 (0.063±0.006)	0.80±0.10 (0.031±0.004)	0.60±0.10 (0.024±0.004)	0.31±0.21 (0.012±0.008)

* H : 素子の厚さ (最大) The maximum thickness of Device.

Recommended Pad Layout

推奨半田/パッド寸法

(per IPC-SM-782)



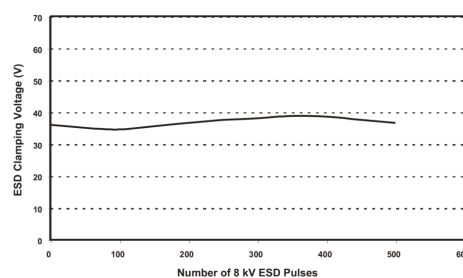
Unit
単位 : mm (Inches)

Specifications

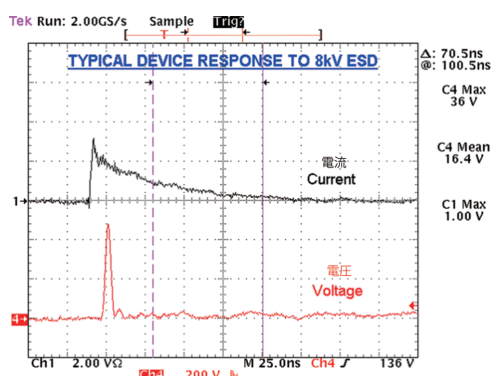
Performance Characteristics	Units	Min	Typ	Max
Continuous Operating Voltage	Vdc	--	14	30
Clamping Voltage	V	--	35	60
Trigger Voltage	V	--	350	--
ESD Threat Voltage Capability	kv	--	8	15
Capacitance (@ 1MHz)	pF	--	0.10	0.15
Leakage Current (@ 12Vdc)	nA	--	<0.1	100
Peak Current	A	--	30 Typ.	45
Operating Temperature	°C	-55	+25	+105
ESD Pulse Withstand	# Pulses	20	>500	--

1. Per IEC 61000-4-2, 30A @ 8kV, Level 4, contact discharge, measurement made 30ns after initiation of pulse.
2. Trigger measurement made using Transmission Line Pulse (TLP) method.

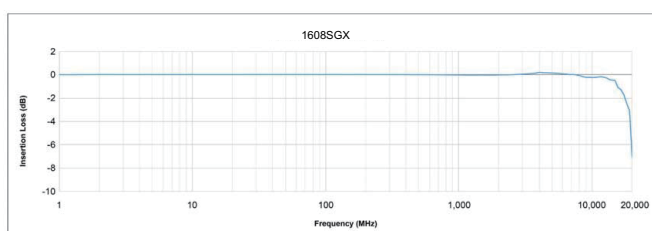
ESD Clamping Voltage v.s. number of 8kV ESD Pulses ESD クラмп電圧 - 8kV ESD 接触放電/パルス耐久特性



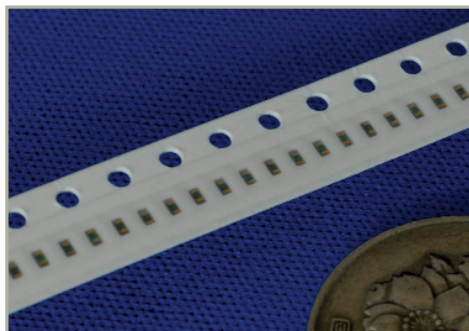
8kV ESDに対する反応 (代表値) Typical Device Response to 8kV ESD



Low Signal Loss in Highest Speed Data Circuit 低静電容量のため 高速信号や高周波信号の挿入損失の劣化が少ない



ESD サプレッサー 静電気抑制素子



特性：

- 1005 mmサイズ [0402" size]
- RoHS 適合品
- 鉛フリー/ハロゲンフリー
- 両極性
- 非常に低いキャパシタンス (0.05pF Max.)
- 高速応答性
- 低い漏れ電流 (<0.1nA)

FEATURES :

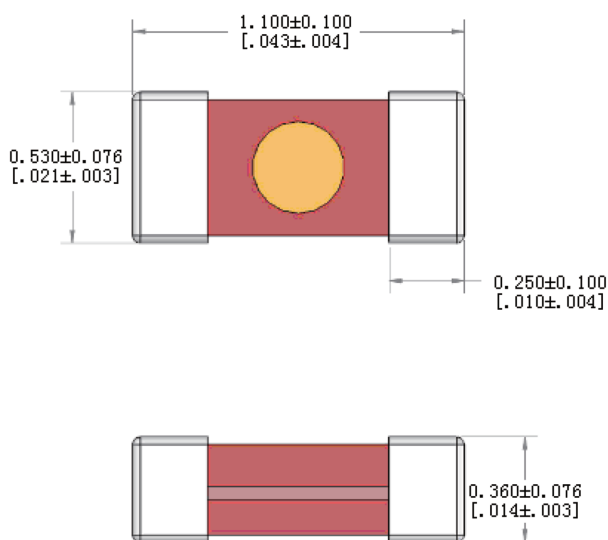
- 0402/1005 size
- RoHS-Compliant Product
- Pb-Free / Halogen Free
- Bi-directional
- Ultra-low Capacitance
- Fast Response Time
- Low Leakage Current

1005 SGX

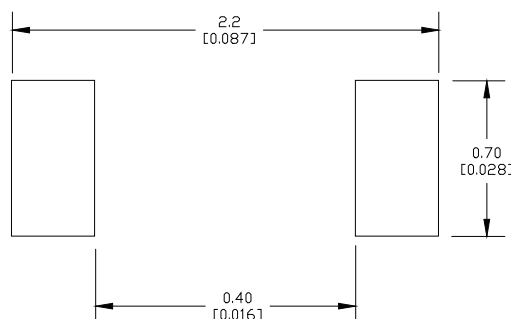
製品名：1005 SGX

寸法 DIMENSIONS:

Unit
単位: mm [Inches]



Recommended Pad Layout
推奨半田パッド寸法



Characteristic	Value
Rated Voltage	30V _{DC} maximum
Clamping Voltage ¹	35V typical
Trigger Voltage ²	300V typical
Capacitance (@1MHz)	0.05pF typ., 0.15pF max.
Attenuation Change (0-6GHz)	-0.2dB typical
Leakage Current (@12V _{DC})	<0.1nA typical
ESD Capability	
IEC61000-4-2 Direct Discharge	8kV typical
IEC61000-4-2 Air Discharge	15kV typical
ESD Pulse Withstand ¹	>1000 typical

Notes

¹ Per IEC61000-4-2, Level 4 waveform (8kV direct, 30A) measured 30ns after initiation of pulse.

² Trigger measurement made using Transmission Line Pulse (TLP) method

³ Minor shifting in characteristics may be observed over multiple ESD pulses at very rapid rate.