

# MS

## Low Capacitance MAX Guard<sup>®</sup> ESD Suppressor

RoHS  
Compliant

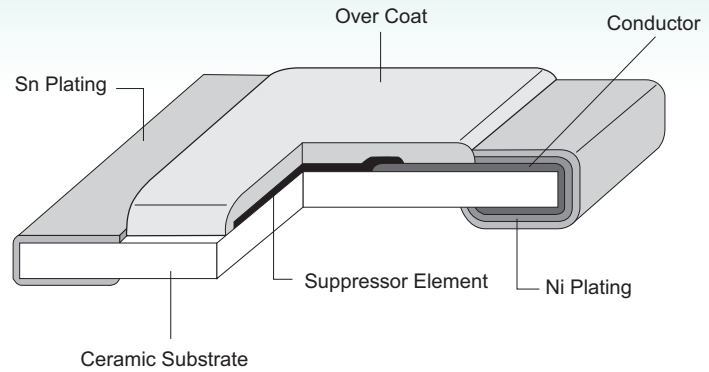
### Features

- Low capacitance (<0.2pF)
- Ultra low leakage current (<1nA)
- Fast response time
- Bi-direction protection device

### Application

- Mobile / smart phone
- Computers / N/B PC
- Digital cameras
- PDA / MID / UMPC
- Plasma display panel / LCD TV / HDTV / PDP
- MP3 / Multimedia players / Game device
- Scanner / Printer
- High speed data ports  
USB 2.0, IEEE1394

### Construction

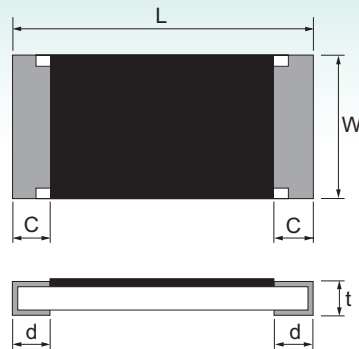


### Type Designation

MS	06	A	05	T	2	V2
Product Code	Size	Safety Certification	Operating Voltage	Packaging	Typical Clamping Voltage	Typical Trigger Voltage
MAX Guard Suppressor	04: 0402 (1.0x0.5mm) 06: 0603 (1.6x0.8mm)	A: Suit For IEC61000-4-2  C: Suit For IEC61000-4-2 & AEC-Q200	03: 3.3V 05: 5.5V 12: 12V 24: 24V	T: Paper Tape (5K/10K)	1: 17V 2: 25V	V1: 150V V2: 250V

TAI-TECHNOLOGY CO., LTD.

## Dimensions



Unit: mm

Type (inch)	L	W	C	d	t
MS04 (0402)	1.00±0.1	0.52±0.05	0.20±0.1	0.25±0.1	0.36±0.05
MS06(0603)	1.6±0.1	0.80±0.1	0.30±0.2	0.35±0.2	0.45±0.1

## Rating & Characteristic

Type	Continuous Operating Voltage (Max.)	ESD Capability* <sup>1</sup>	Trigger Voltage (Typ.)* <sup>2</sup>	Clamping Voltage (Typ.)* <sup>2</sup>	Capacitance* <sup>3</sup>	Leakage Current (Typ.)	Response Time	ESD Pulse Withstand (Typ.)* <sup>4</sup>
MS04A03T1V1	3.3 VDC	Direct Discharge: 8KV Air Discharge: 15KV	150V	17V	<0.2pF	<1nA	<1ns	>1000 pulses
MS06A03T1V1			250V	25V				
MS04A03T2V2			150V	17V				
MS06A03T2V2			250V	25V				
MS04A05T1V1	5.5 VDC		150V	17V				
MS06A05T1V1			250V	25V				
MS04A05T2V2			150V	17V				
MS06A05T2V2			250V	25V				
MS04A12T1V1	12 VDC	150V	17V					
MS06A12T1V1		250V	25V					
MS04A12T2V2		150V	17V					
MS06A12T2V2		250V	25V					
MS04A24T2V2	24 VDC	250V	25V					
MS06A24T2V2		250V	25V					

### Note:

- \*1. The function meets with the requirement of IEC 61000-4-2 specification.
- \*2. Trigger measurement made using Transmission Line Pulse method.
- \*3. Capacitance measured at 1 M~1.8 GHz.
- \*4. Performing under IEC 61000-4-2 level 4 (8KV contact discharge, 15KV air discharge).

## Rating & Characteristic

Type	Continuous Operating Voltage (Max.)	ESD Capability* <sup>1</sup>	Trigger Voltage (Typ.)* <sup>2</sup>	Clamping Voltage (Typ.)* <sup>2</sup>	Capacitance* <sup>3</sup>	Leakage Current (Typ.)	Response Time	ESD Pulse Withstand (Typ.)* <sup>4</sup>	
MS04C03T1V1	3.3 VDC	Direct Discharge: 8KV  Air Discharge: 15KV	150V	17V	<0.2pF	<1nA	<1ns	>1000 pulses	
MS06C03T1V1									
MS04C03T2V2			250V	25V					
MS06C03T2V2									
MS04C05T1V1	5.5 VDC			150V					17V
MS06C05T1V1									
MS04C05T2V2			250V	25V					
MS06C05T2V2									
MS04C12T1V1	12 VDC		150V	17V					
MS06C12T1V1									
MS04C12T2V2		250V	25V						
MS06C12T2V2									
MS04C24T2V2	24 VDC		250V	25V					
MS06C24T2V2									

### Note:

- \*1. The function meets with the requirement of IEC 61000-4-2 specification.
- \*2. Trigger measurement made using Transmission Line Pulse method.
- \*3. Capacitance measured at 1 M~1.8 GHz.
- \*4. Performing under IEC 61000-4-2 level 4 (8KV contact discharge, 15KV air discharge).

单击下面可查看定价，库存，交付和生命周期等信息

[>>TA-I \(大毅\)](#)