

ESD Suppressor (Single)



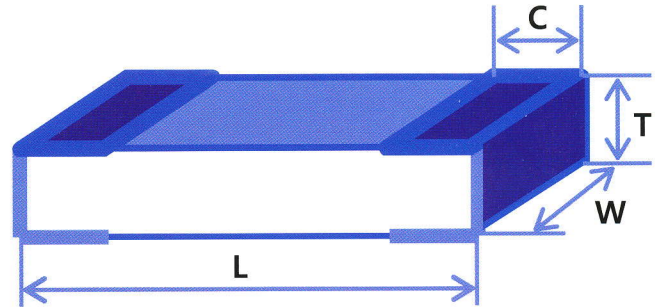
Features

- Outstanding ESD Protection
- Ultra low Capacitance (0.05pF typ.)
- Very low leakage current
- Fast response time($<1\text{ns}$)
- Bi-directional
- RoHS Compliance.

Applications

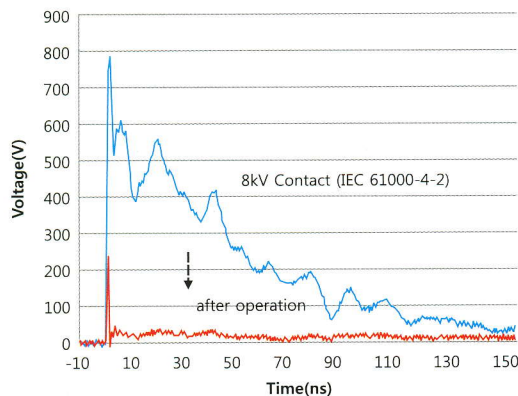
- High speed interface
- Cellular handsets
- Communication system
- Portable electronics
- Audio & Video equipments
- Computer & Peripheral

Shape and Dimensions

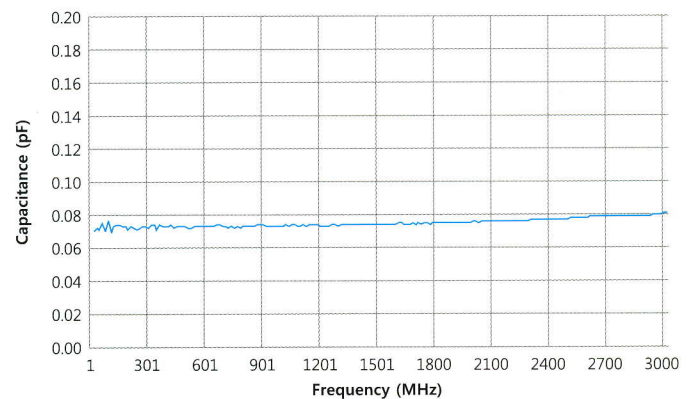


Dimensions	L	W	T	C
	1.0 ± 0.1	0.5 ± 0.1	0.4 ± 0.1	0.2 ± 0.1

ESD Suppression Waveform



Capacitance vs. Frequency



Device Ratings & Characteristics

Part No.	Maximum Operating Voltage(V)	Leakage Current (μA)	Capacitance (pF, Typ)	Attenuation Change 3GHz (dB, Typ)	EDS Capability Contact Discharge Mode (kV)	Minimum ESD Pulse Withstand (times)	Operating Temp ($^{\circ}\text{C}$)
CD10S05E05T	5	0.001	0.05	0.1	± 15	100	-55 to 125
CD10S05E15T	5	0.001	0.15	0.1	± 15	100	-55 to 125
CD10S12E05T	12	0.001	0.05	0.1	± 15	100	-55 to 125
CD10S12E15T	12	0.001	0.15	0.1	± 15	100	-55 to 125

* Specifications are subject to change without notice.

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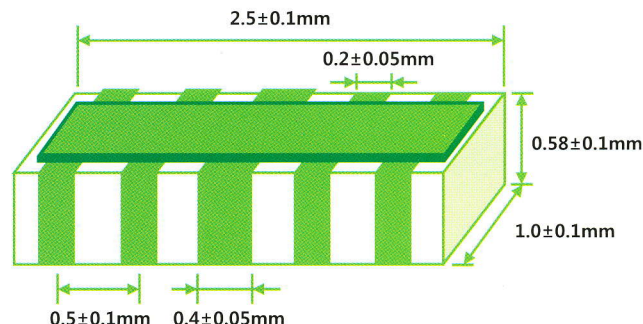
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ESD Suppressor (Array)

Features

- Outstanding ESD Protection
- Ultra low Capacitance (0.3pF typ.)
- Very Low Clamping Voltage
- Fast response time(<1ns)
- RoHS Compliance.
- 4 Lines

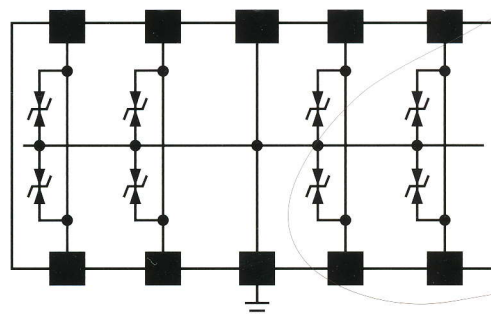
Shape and Dimensions



Applications

- High speed interface
- Cellular handsets
- Communication system
- Portable electronics
- Audio & Video equipments
- Computer & Peripheral

Schematic



Device Ratings & Characteristics

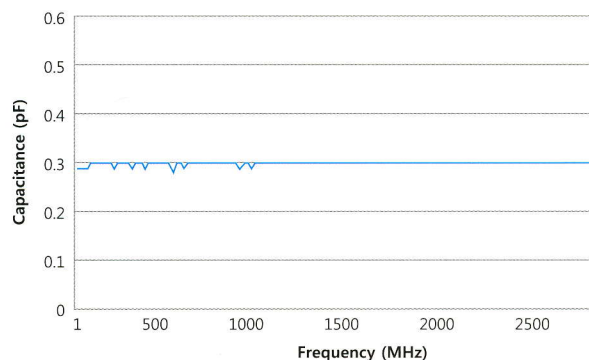
Size	2.5mm x 1.0mm x 0.58mm
Capacitance (@ 1MHz) - Between I/O Pins - I/O Pin to GND	0.2pF (Typ.) / 0.3pF (Max) 0.3pF (Typ.) / 0.4pF (Max)
Operating Voltage	D.C. 12V
Operating Temperature	-55°C to 125°C

* Clamping Voltage

Shall be measured at 30ns after initiation of pulse and measured at the condition specified below.

* ESD Test Condition : IEC 61000-4-2, 8kV Contact Discharge

Capacitance vs. Frequency



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