

## Product Overview

### ESD7104: 4ch Low Capacitance ESD Protection for High Speed Data Lines

For complete documentation, see the data sheet.



The ESD7104 is designed to protect high speed data lines from ESD. Ultra-low capacitance and low ESD clamping voltage make this device an ideal solution for protecting voltage sensitive high speed data lines. The flow-through style package allows for easy PCB layout and matched trace lengths necessary to maintain consistent impedance between high speed differential lines such as USB 3.0 and HDMI.

#### Features

- Low Capacitance (0.3 pF Typical, I/O to GND)
- IEC61000-4-2 (ESD): Level 4
- SZESD7104MTWTAG Wettable Flank Package
- Low ESD Clamping Voltage
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

#### Benefits

- Preserves Signal Integrity
- High System Level EMC Survivability
- Enables optimal Automated Optical Inspection (AOI)
- High System Level EMC Survivability
- Automotive Qualified

#### Applications

- USB 3.0
- eSATA 3.0
- HDMI 1.3/1.4
- Display Port
- USB-PD

#### End Products

- USB Hubs & PD Chargers

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	V <sub>(BR)</sub> Min (V)	V <sub>RWM</sub> Max (V)	I <sub>R</sub> Max (μA)	P <sub>PK</sub> Max (W)	Package Type
ESD7104MUTAG	0.2044	Pb-free Halide free non AEC-Q and PPAP	Active	eSATA 2.0 HDMI 1.3/1.4 USB 3.0	4	Bidirectional	0.35	5.5	5	1	21.3	UDFN-10
SZESD7104MTWTAG	0.1001	AEC Qualified PPAP Capable Pb-free Halide free	Active	eSATA 2.0 HDMI 1.3/1.4 USB 3.0	4	Bidirectional	0.35	5.5	5	1	21.3	WDFN-10 2.5x1.0, 0.5P
SZESD7104MUTAG	0.2473	AEC Qualified PPAP Capable Pb-free Halide free	Active	eSATA 2.0 HDMI 1.3/1.4 USB 3.0	4	Bidirectional	0.35	5.5	5	1	21.3	UDFN-10

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