

# ESD Suppressor

Type: **EZAEG**

**[Our Requests]**  
 Please use upgrade compatible new model EZAEG1N series instead of this EZAEG1A, EZAEG1A will be integrated to EZAEG1N in future.

EZAEG1A

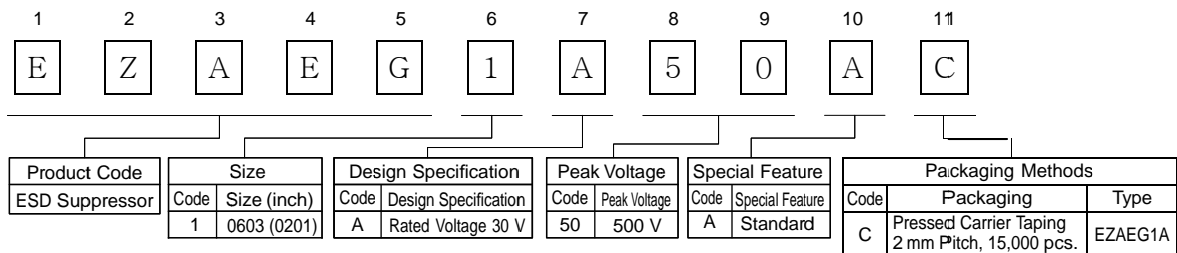
■ Features

- ESD protection of high-speed data lines
- Low capacitance
- Good ESD suppression characteristics
- Good ESD withstanding
- RoHS compliant

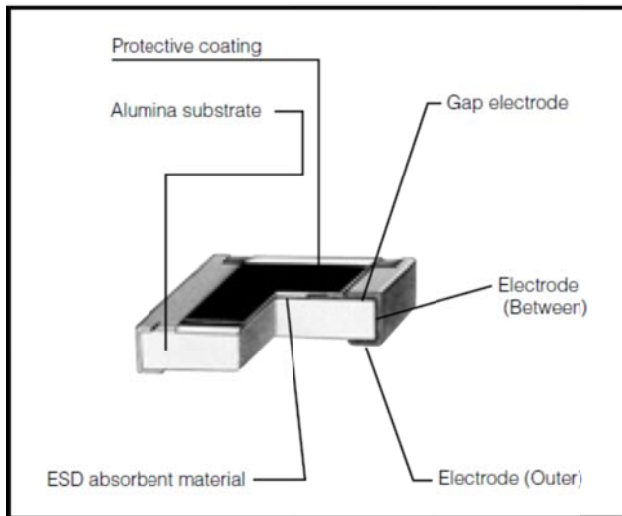
■ Recommended Applications

- High-Speed Data Lines  
(HDMI, Serial ATA, USB, IEEE1394, Display Port)
- Antenna Circuitry and RF Modules (Cellular Phones)

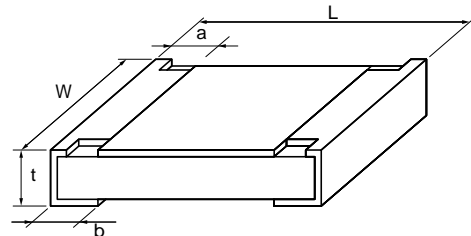
■ Explanation of Part Numbers



■ Construction

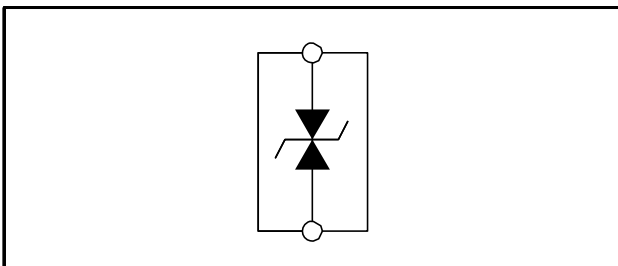


■ Dimensions in mm (not to scale)



Type (inch size)	Dimensions (mm)					Mass (Weight) [g/1000 pcs.]
	L	W	a	b	t	
EZAEG1A (0201)	0.60 <sup>±0.03</sup>	0.30 <sup>±0.03</sup>	0.15 <sup>±0.10</sup>	0.15 <sup>±0.10</sup>	0.23 <sup>±0.03</sup>	0.12

■ Circuit Configuration



### ■ Ratings

Type (inch size)	Capacitance <sup>(1)</sup>	Peak Voltage <sup>(2)</sup>	Clamping Voltage <sup>(3)</sup>	Rated Voltage	Category Temperature Range
EZAEG1A (0201)	0.04 <sup>+0.04</sup> <sub>-0.03</sub> pF	500 V max. (350 V typ.)	100 V max.	30 V max	-55 to +125 °C

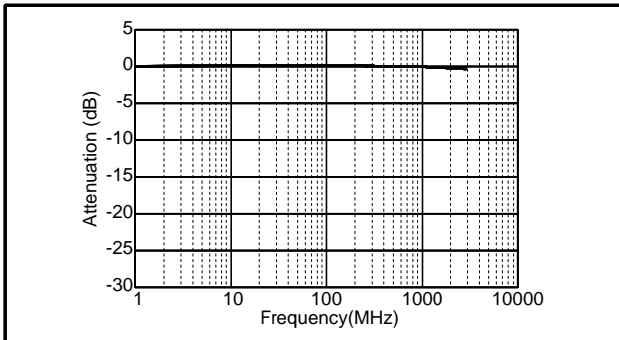
(1) Capacitance = The capacitance value shall be measured under the conditions specified below.

Frequency : 1 MHz±10 %, Voltage : 1 Vrms±0.2 Vrms, Temperature : 25 °C±2 °C

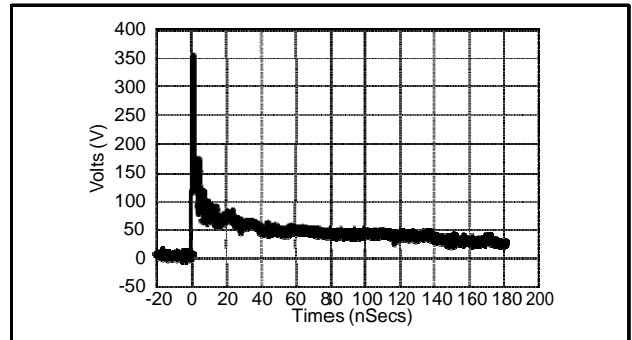
(2) Peak Voltage = The peak voltage value shall be measured under the following conditions. ESD test conditions : IEC61000-4-2, 8 kV contact discharge

(3) Clamping Voltage = The clamping voltage value shall be measured at 30 ns after initiation of pulse and measured under the conditions specified below. ESD test conditions : IEC61000-4-2, 8 kV contact discharge

### ■ Frequency Characteristics

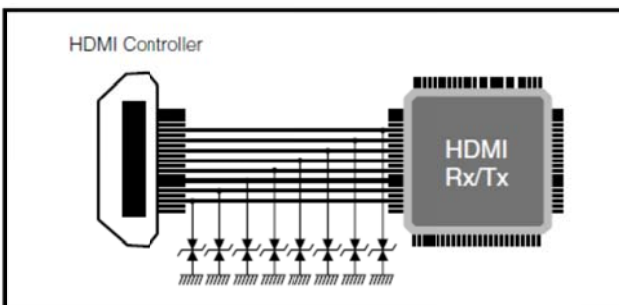


### ■ ESD Suppression Voltage Waveform

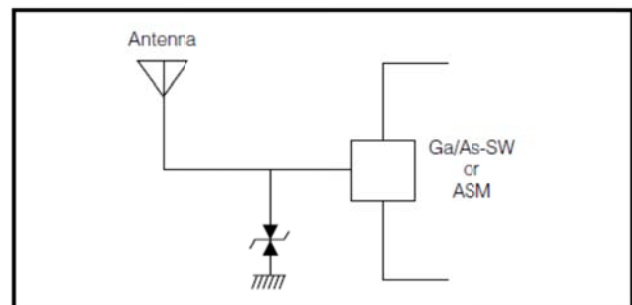


### ■ Typical Circuits Requiring Protection

#### ● HDMI circuit

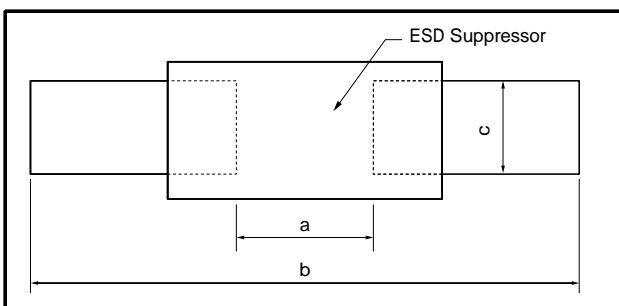


#### ● Antenna circuit



### ■ Recommended Land Pattern

Recommended land pattern design for ESD Suppressor is shown below.



Type (inch size)	Dimensions (mm)		
	a	b	c
EZAEG1A (0201)	0.3 to 0.4	0.8 to 0.9	0.25 to 0.35

### ■ Packaging Methods, Soldering Conditions and Safety Precautions

Please see Data Files