



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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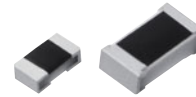
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ESD Suppressor

Type: **EZAEG**

EZAEG2A, 3A



Features

- ESD protection of high-speed data lines
- Low capacitance 0.05 pF : 1005(0402) size
0.10 pF : 1608(0603) size
- Good ESD suppression characteristics
- Good ESD withstanding
- RoHS compliant

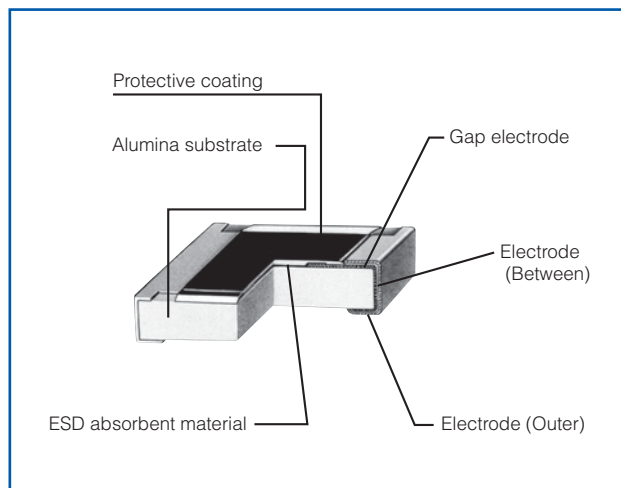
Recommended Applications

- Smart phones, Mobile phones, RF Modules, NFC and GPS
- ESD suppression of high-speed differential data line such as Antena circuit, HDMI, SATA, USB, Display Port

Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11
E	Z	A	E	G	2	A	5	0	A	X
Product Code ESD Suppressor	Size		Design Specification		Peak Voltage		Special Feature		Packaging Methods	
	Code	Size mm (inch)	Code	Design Specification	Code	Peak Voltage	Code	Special Feature	Code	Packaging
	2	1005 (0402)	A	Rated Voltage 30 V	50	500 V	A	Standard	X	Pressed Carrier Taping 2 mm Pitch, 10,000 pcs.
	3	1608 (0603)							V	Punched Carrier Taping 4 mm Pitch, 5,000 pcs.
										Part No.
										EZAEG2A
										EZAEG3A

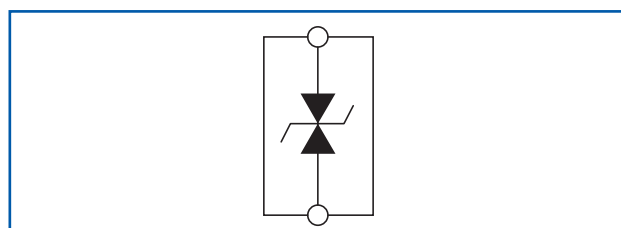
Construction



Dimensions in mm (not to scale)

Part No. (inch size)	Dimensions (mm)					Mass (Weight) [g/1000 pcs.]
	L	W	a	b	t	
EZAEG2A (0402)	1.00±0.10	0.50±0.05	0.20±0.10	0.25±0.10	0.38±0.05	0.6
EZAEG3A (0603)	1.60±0.15	0.80±0.15	0.30±0.20	0.30±0.20	0.50±0.10	2.2

Circuit Configuration



Ratings

Part Number (inch size)	Capacitance ⁽¹⁾	Peak Voltage ⁽²⁾	Clamping Voltage ⁽³⁾	Rated Voltage	Category Temperature Range
EZAEG2A50AX (0402)	0.05 ^{+0.05} _{-0.04} pF	500 V max. (350 V typ.)	100 V max.	30 V max	-55 to +125 °C
EZAEG3A50AV (0603)	0.10 ^{+0.10} _{-0.08} pF				

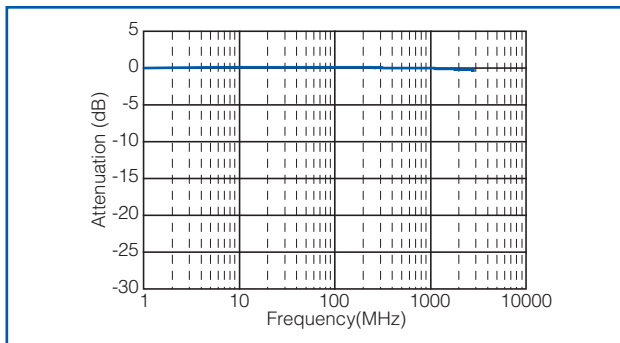
(1) Capacitance = The capacitance value shall be measured under the conditions specified below.

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

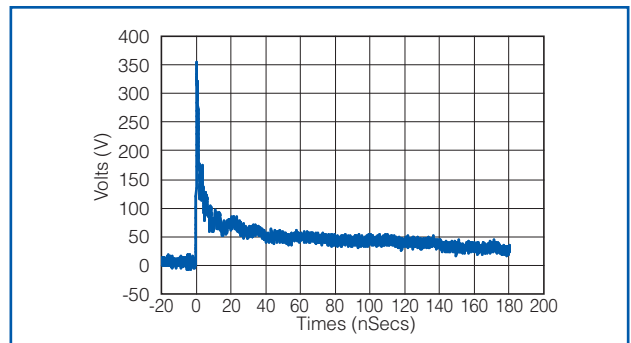
(2) Peak Voltage = The peak voltage value shall be measured under the following conditions. ESD test conditions : IEC61000-4-2, 8 kV contact discharge

(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

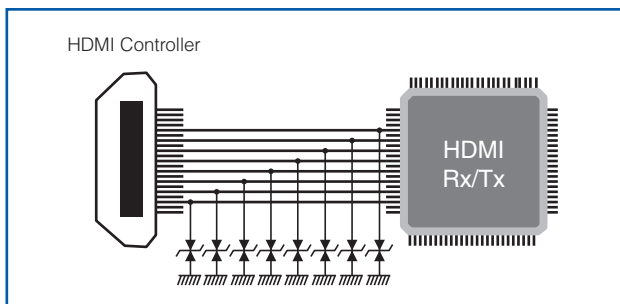


ESD Suppression Voltage Waveform

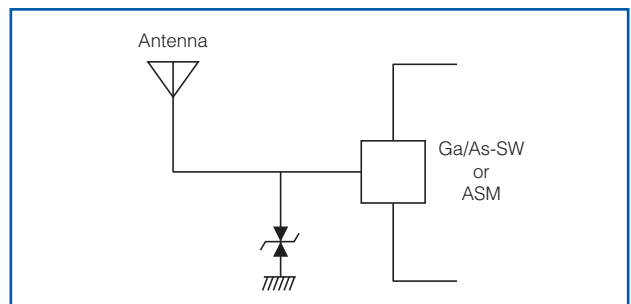


Typical Circuits Requiring Protection

● HDMI circuit

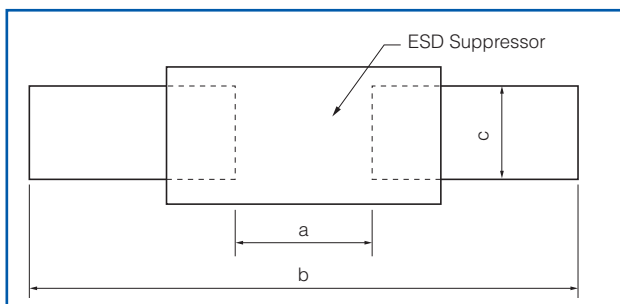


● Antenna circuit



Recommended Land Pattern

Recommended land pattern design for ESD Suppressor is shown below.



Part Number (inch size)	Dimensions (mm)		
	a	b	c
EZAEG2A (0402)	0.5 to 0.6	1.4 to 1.6	0.4 to 0.6
EZAEG3A (0603)	0.7 to 0.9	2.0 to 2.2	0.8 to 1.0

■ As for Packaging Methods, Soldering Conditions and Safety Precautions,

Please see Data Files