

Multilayer Varistor for ESD pulse



Series **EZJS** : For Power line
 (ST:Strontium Titanate) (High capacitance)

■ Features

- Multilayer monolithic ceramic construction
- Excellent solderability and superior heat resistance
- Large surge current and energy capabilities in withstanding small size.

■ Precautions for Handling

see Page 112 to 118

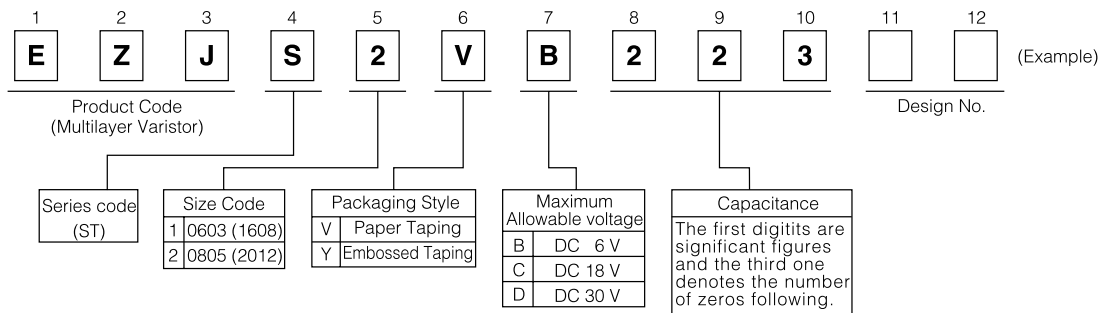
● Series EZJS

- Multilayer varistor of Strontium Titanate ceramic suppresses the pulse noise, especially high frequency noise(ESD, burst-noise) and protects the equipment from the transient surge.
- This Varistor is suitable for low-frequency signal circuit power and audio signal line due to large capacitance.

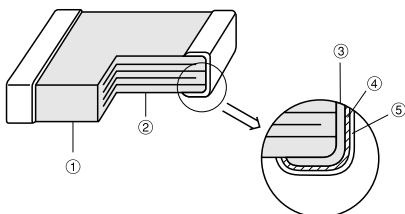
■ Packing method

see Page 111, 182

■ Explanation of Part Numbers



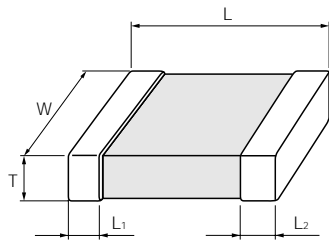
■ Construction



No	Name	
①	Semiconductive Ceramics	
②	Inner electrode	
③	Electrode	Substrate electrode
④		Intermediate electrode
⑤		External electrode

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■ Dimension in mm(not to scale)



(Unit:mm)

Size Code (EIA)	Part Numbers	L	W	T	L1, L2
0603	EZJS1□□□□□	1.60±0.15	0.8±0.1	0.8±0.1	0.3±0.2
0805	EZJS2VB223	2.0±0.2	1.25±0.20	0.8±0.2	0.50±0.25
	EZJS2VB822			1.25±0.20	
	EZJS2YD472				

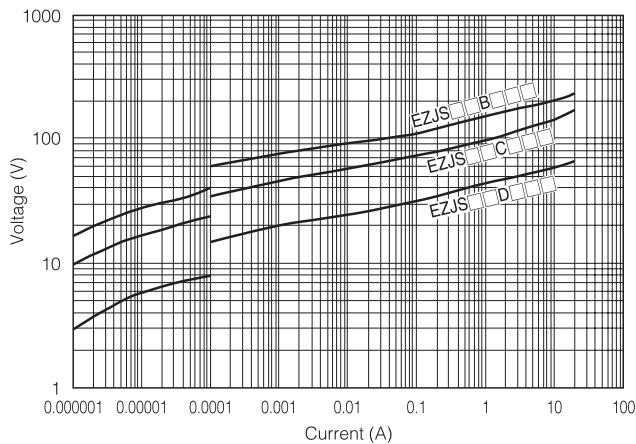
■ Ratings and Characteristics

Size Code (EIA)	Part No.	Maximum Allowable Voltage	Varistor Voltage @ 1mA	Capacitance @ 1 kHz	Maximum ESD IEC61000-4-2
0603	EZJS1VB822	DC 6 V	12 V	8200 pF	Contact Discharge Voltage: 30 kV
	EZJS1VC392	DC 18 V	30 V	3900 pF	
	EZJS1VD182	DC 30 V	50 V	1800 pF	
0805	EZJS2VB223	DC 6 V	12 V	22000 pF	
	EZJZ2YC822	DC 18 V	30 V	8200 pF	
	EZJS2YD472	DC 30 V	50 V	4700 pF	

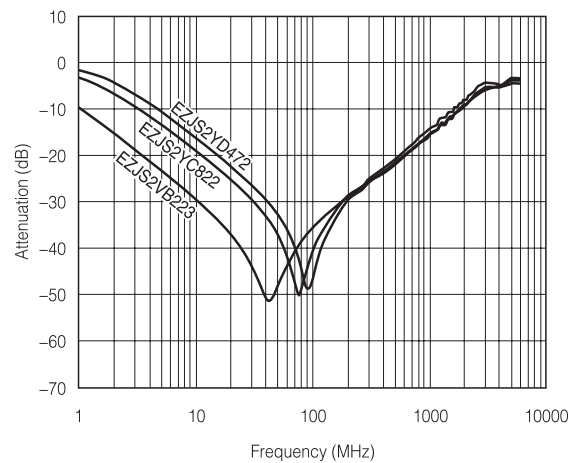
● Operating Temperature Range: -40 to 85 °C

■ Typical Characteristics

● Voltage vs. Current



■ Frequency Characteristics

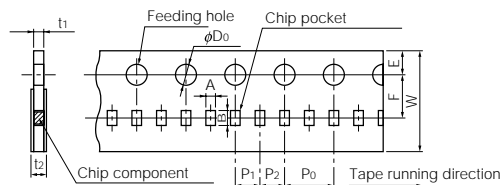


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■ Packaging Specifications
● Standard Packing Quantity

Series	Size Code (EIA)	Thickness	Paper taping	Embossed taping
EZJZ	0201	0.3 mm	Pitch: 2 mm 15,000 pcs./reel	—
	0402	0.5 mm	Pitch: 2 mm 10,000 pcs./reel	—
	0603	0.8 mm	Pitch: 4 mm 4,000 pcs./reel	—
	2 Array Type	0.6 mm	Pitch: 4 mm 4,000 pcs./reel	—
	4 Array Type	0.85 mm	Pitch: 4 mm 4,000 pcs./reel	—
EZJS	0603	0.8 mm	Pitch: 4 mm 4,000 pcs./reel	—
	0805	0.8 mm	Pitch: 4 mm 5,000 pcs./reel	—
		1.25 mm	—	Pitch: 4 mm 2,000 pcs./reel

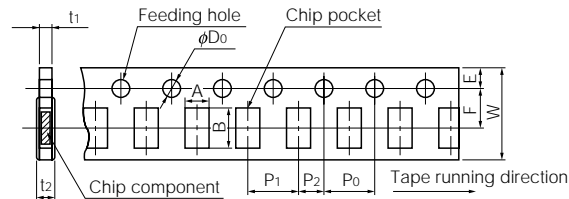
● Paper Taping
P₁: 2mm



(Unit: mm)

Symbol	A	B	W	F	E	P ₁	P ₂	P ₀	φD	t ₁	t ₂
0201	0.37 ±0.03	0.67 ±0.03	8.0	3.50 ±0.05	1.75 ±0.10	2.00 ±0.05	2.00 ±0.05	4.0 ±0.05	1.5 +0.1 0	0.5 max.	0.8 max.
0402	0.62 ±0.05	1.12 ±0.05	8.0	3.50 ±0.05	1.75 ±0.10	2.00 ±0.05	2.00 ±0.05	4.0 ±0.05	1.5 +0.1 0	0.7 max.	1.0 max.

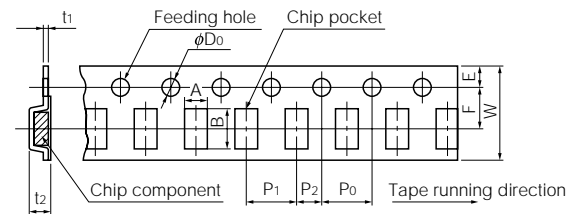
P₁: 4mm



(Unit: mm)

Symbol	A	B	W	F	E	P ₁	P ₂	P ₀	φD	t ₁	t ₂
0603	1.18 ±0.10	1.63 ±0.10	8.0	3.50 ±0.05	1.75 ±0.10	4.0 ±0.1	2.00 ±0.05	4.0 ±0.1 0	1.5 +0.1	1.1 max.	1.4 max.
0805 4 Array Type	1.65 ±0.2	2.4 ±0.2	8.0	3.50 ±0.05	1.75 ±0.10	4.0 ±0.1	2.00 ±0.05	4.0 ±0.1 0	1.5 +0.1	1.1 max.	1.4 max.
0504 2 Array Type	1.0 ±0.1	1.8 ±0.1	8.0	3.50 ±0.05	1.75 ±0.10	4.0 ±0.1	2.00 ±0.05	4.0 ±0.1 0	1.5 +0.1	1.1 max.	1.4 max.

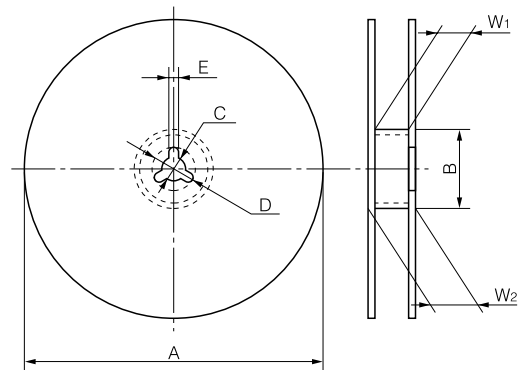
● Embossed Taping



(Unit: mm)

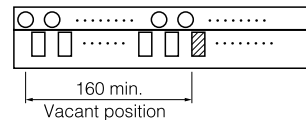
Symbol	A	B	W	F	E	P ₁	P ₂	P ₀	φD	t ₁	t ₂
0805	1.55 ±0.20	2.35 ±0.20	8.0 ±0.2	3.50 ±0.05	1.75 ±0.10	4.0 ±0.1	2.00 ±0.05	4.0 ±0.1	1.5 +0.1 0	0.6 max.	1.5 max.

● Reel

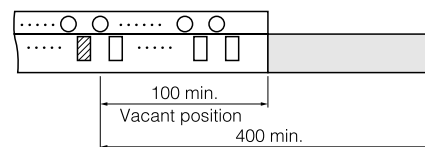


Symbol	A	B	C	D	E	W ₁	W ₂
Dim. (mm)	φ180 ⁺⁰ ₋₁	φ60.0±0.5	13.0±0.5	21.0±0.8	2.0±0.5	9.0±0.3	11.4±1.00

● Leader Part and Taped End
Tape end



Leader part



Unit : mm

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