MULTILAYER CHIP VARISTORS [LVS Series]

The capacitance of multiplayer chip varistors, LVS series, is low enough to minimize the deterioration of signal waveforms even if they are put in high-speed data lines. They are ideal for protection from static electricity of high-speed signal lines of AV equipment, etc.

■Features

- The low capacitance permits the use for protection of USB2.0 and other high-speed signal lines from static electricity.
- Conforming to the ESD test standard, IEC-61000-4-2 LEVEL4 (8kV)
- Highly reliable termination with Ni+Sn barrier.
- Lead-free
- RoHS Compliant.

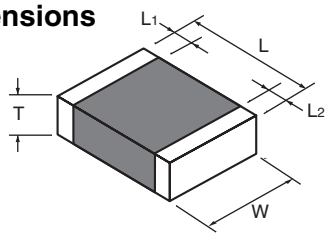
■Applications

Protection of cellular phones, laptops, and other portable electronic equipment from electrostatic surge.
Protection of high-speed signal lines of AV equipment, etc. from electrostatic surge.

■Part Number System

LVS	05	C	270	S	030	–T(B)	P
Series	Style	Capacitance C : Low capacitance	Varistor voltage 270 : 27V	Varistor voltage tolerance S : Individual specification	Capacitance 030 : 3pF	Packing form T :Taping B : Bulk	Termination P :Ni/Sn barrier

■Dimensions



Unit : mm

Type	EIA Symbol	L	W	T	L1 • L2
LVS05	0402	1.0±0.1	0.5±0.1	0.6max	Min 0.2
LVS10	0603	1.6±0.2	0.8±0.2	0.8±0.2	0.35±0.2

■Part Number List • Specifications

Part number	Maximum allowable voltage	ESD surge tolerance	Varistor voltage	Capacitance
		IEC-61000-4-2(kV)	V1mA	
	(VDC)	contact discharge	(V)	[pF] typ
LVS05C270S030	10	8	27	3.3
LVS05C850S010	10	8	85(0.1mA)	1.1
LVS10C270S030	10	8	27	3.3
LVS10C850S010	10	8	85(0.1mA)	1.1

■Application Examples of LVS (AVS) Series

Part number	Capacitance	Example of application	
		Transmission method	Transmission speed
LVS□□C850S010	1.1pF	DVI HDMI	1.65Gbps 1.65Gbps
LVS□□C270S030	3.3pF	IEEE1394 LVDS	800Mbps 1.12Gbps
AVS10A270S121	15pF	Ethernet USB2.0	10M,100Mbps 480Mbps

■Insertion Loss Characteristics