

## MULTILAYER CHIP VARISTORS [ CVS Series ]

The multilayer chip varistor, CVS series, has a high maximum peak current with small size. It is the best for ESD protection in electronic devices, such as a notebook PC and a mobile phone.

### ■ Features

- This varistor contains Zinc Oxide as a main ingredient, and is available to be applied to high-speed signal line due to low capacitance.
- This varistor has quick response to pulses, and is best for protection against electrostatic surge due to low ESR.
- Highly reliable termination with Ni+Sn barrier.
- Lead-free
- RoHS Compliant.

### ■ Applications

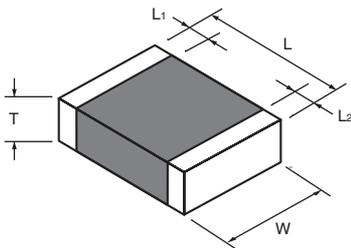
Protection of various electric and electronic devices (mobile electronic devices, AV devices) from electrostatic surge.  
Operating temperature range : -40°C~+125°C



### ■ Part Number System

<b>CVS</b>	<b>05</b>	<b>A</b>	<b>120</b>	<b>M</b>	<b>-T(B)</b>	<b>P</b>
Series	Style	Capacitance A : High capacitance	Varistor voltage 120 : 12V	Varistor voltage tolerance M : ±20%	Packing form T : Taping B : Bulk	Termination P : Ni/Sn barrier

### ■ Dimensions



Unit : mm

Type	EIA Symbol	L	W	T	L1 • L2
CVS05	0402	1.0±0.1	0.5±0.1	0.5±0.1	Min 0.2
CVS10	0603	1.6±0.2	0.8±0.2	0.8±0.2	0.3±0.2
CVS20	0805	2.0±0.2	1.25±0.2	1.25±0.2	0.4±0.25

### ■ Part Number List • Specifications

Part number	Maximum rating				Maximum clamping voltage		Varistor voltage	Capacitance
	Maximum allowable voltage		Maximum peak current	Maximum energy	(A)	(V)	V1mA	
	AC.(Vrms)	DC.(V)	8/20 μs(A)	(J)			(V)	(pF)
CVS05A080M	4	5	15	0.05	1	22	8	200
CVS05A120M	6	8	15	0.05	1	27	12	150
CVS05A220M	11	15	15	0.05	1	40	22	50
CVS10A080M	4	5	30	0.1	2	22	8	900
CVS10A120M	6	8	30	0.1	2	27	12	650
CVS10A220M	11	15	30	0.1	2	40	22	400
CVS10A270M	13	18	30	0.1	2	45	27	350
CVS10A330M	16	22	30	0.1	2	59	33	250
CVS10A390M	18	26	30	0.1	2	70	39	200
CVS20A120M	6	8	60	0.2	3	27	12	1500
CVS20A220M	11	15	60	0.2	3	40	22	1000
CVS20A270M	13	18	60	0.2	3	45	27	750
CVS20A330M	16	22	60	0.2	3	59	33	600
CVS20A390M	18	26	60	0.2	3	70	39	500

\* Dimensions and electric characteristics other than described are available by request. Please contact our sales department for details.