

## MULTILAYER CHIP VARISTORS [ AVS·CVG Series ]

The multilayer chip varistor, AVS · CVG 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

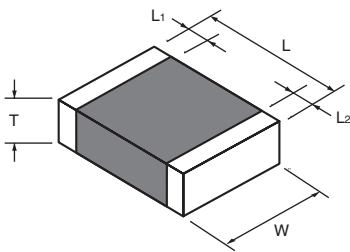
Protection of various electric and electronic devices (mobile electronic devices, AV devices) from electrostatic surge.  
Operating temperature range :  $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$



### ■Part Number System

<b>AVS</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 : $\pm 20\%$ S : Individual specification	Packing form T : Taping B : Bulk	Termination P : Ni/Sn barrier

### ■Dimensions



Unit : mm

Type	EIA Symbol	L	W	T	L1 • L2
AVS05	0402	$1.0\pm 0.1$	$0.5\pm 0.1$	0.6max	0.2min
AVS10	0603	$1.6\pm 0.2$	$0.8\pm 0.2$	$0.8\pm 0.2$	$0.35\pm 0.2$
CVG10	0603	$1.6\pm 0.2$	$0.8\pm 0.2$	$0.8\pm 0.2$	$0.3\pm 0.2$
CVG20	0805	$2.0\pm 0.2$	$1.25\pm 0.2$	$1.25\pm 0.2$	$0.4\pm 0.25$

### ■Part Number List • Specifications (AVS · CVG Series)

形名	Maximum allowable voltage (VDC)	Maximum peak current 8/20 $\mu\text{s}$ (A)	Maximum clamping voltage		Varistor voltage V1mA (V)	Capacitance (pF)
			(A)	(Vc)		
AVS05A080M401	5.5	10	1	20	8	400
AVS05A120M201	5.5	10	1	25	12	200
AVS05A220M101	14	10	1	40	22	100
AVS10A080M801	5.5	30	1	18	8	800
AVS10A120M501	8	30	1	25	11	500
AVS10A220S501	18	30	1	40	22	500
AVS10A270S150	18	2	1	65	27	15
AVS10A270S300	18	2	1	65	27	30
AVS10A270S121	18	30	1	40	27	120
CVG10A330M	22	30	2	59	33	250
CVG10A390M	26	30	2	70	39	200
CVG20A120M	8	60	3	27	12	1500
CVG20A220M	15	60	3	40	22	1000
CVG20A270M	18	60	3	45	27	75
CVG20A330M	22	60	3	59	33	600
CVG20A390M	26	60	3	70	39	500

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