

MULTI LAYER CHIP VARISTORS [CVG30B · 40B Series]

The multilayer chip varistor, CVG Series, is a surge absorbing ceramic varistor developed for high-density surface mounting. The compact varistor has a multilayer structure for high maximum peak current.

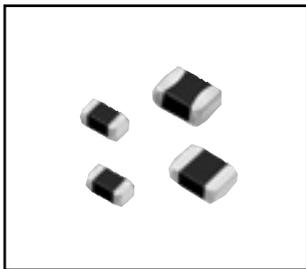
■ Features

- Very large maximum peak current in compact sizes.
- The zinc oxide material ensures high reliability with excellent nonlinearity and response.
- It is possible to supply in embossed taping best for automatic mounting.
- RoHS Compliant.

■ Applications

Protection of various semiconductor elements from overvoltage. Protection of various types of equipment from inductive lighting surge. Absorption of switching surge and electrostatic surge for relays, horns, and motors.

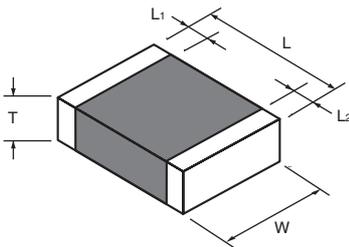
Operating temperature range : $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$



■ Part Number System

CVG	30	B	120	M	-T(B)	W
Series	Style	Capacitance B : Low capacitance	Voltage 120 : 12V	Varistor voltage tolerance M : $\pm 20\%$	Packing form T:Taping B:Bulk	Termination W : Ag

■ Dimensions



Unit : mm

Type	EIA Symbol	L	W	T	L1 • L2
CVG30B	1206	3.2 ± 0.2	1.6 ± 0.2	$\sim 390:1.0\pm 0.2$ $470\sim:1.25\pm 0.2$	$0.6^{+0.3}_{-0.2}$
CVG40B	1210	3.2 ± 0.2	2.5 ± 0.2	$\sim 390:1.0\pm 0.2$ $470\sim:1.25\pm 0.2$	$0.6^{+0.3}_{-0.2}$

*T changes according to the varistor voltage.

■ Part Number List • Specifications

Part number	Maximum rating				Maximum clamping voltage		Varistor voltage	Capacitance
	Maximum allowable voltage		Maximum peak current 8/20 μs (A)	Maximum energy (J)			V1mA (V)	
	AC.(Vrms)	DC.(V)			(A)	(V)		(V)
CVG30B120M	6	8.5	80	1	1	22	12	776
CVG30B180M	9.1	12.8	80	1	1	32	18	518
CVG30B220M	12	16.5	80	1	1	40	22	423
CVG30B270M	17	22	80	1	1	50	27	345
CVG30B330M	20	26	80	1	1	60	33	282
CVG30B390M	25	30	80	1	1	70	39	243
CVG30B470M	28	36	80	1	1	83	47	207
CVG30B560M	33	43	80	1	1	98	56	177
CVG40B120M	6	8.5	160	2	2	22	12	1,553
CVG40B180M	9.1	12.8	160	2	2	32	18	1,035
CVG40B220M	12	16.5	160	2	2	40	22	847
CVG40B270M	17	22	160	2	2	50	27	690
CVG40B330M	20	26	160	2	2	60	33	564
CVG40B390M	25	30	160	2	2	70	39	487
CVG40B470M	28	36	160	2	2	83	47	415
CVG40B560M	33	43	160	2	2	98	56	353

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