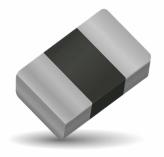
Controlled Capacitance Multilayer Varistor





GENERAL DESCRIPTION

The Controlled Capacitance TransGuard is an application specific bi- directional transient voltage suppressor developed for use in mixed signal environments. The Controlled Cap MLV has three purposes: 1) reduce emissions from a high speed ASIC, 2) prevent induced E fields from conducting into the IC, and 3) clamp transient voltages By controlling capacitance of the MLV, the center frequency and 20db range for filtering purposes can be targeted. A

By controlling capacitance of the MLV, the center frequency and 20db range for filtering purposes can be targeted. A Controlled Cap MLV can greatly improve overall system EMC performance and reduce system size.

GENERAL CHARACTERISTICS

- Operating Teperature: -55°C to +125°C
- Working Voltage: 9 30Vdc
- Case Size: 0402, 0603

FEATURES

- Single Chip Solution
- Tageted EMI/RFI Filtering
- 20dB Range for tiltering purposes
- Improves system EMC performance
- Very fast response to ESD
- 25kV ESD

APPLICATIONS

- EMI TVS Module Control
- High Speed ASICS
 - Mixed Signal Environment

COMPLIAN

Sensors and more

HOW TO ORDER

VCAC	0603	22	Α	470	N	R	P
Varistor Chip Automotive Capacitance	Chip Size 0402 0603	Working Voltage 09 = 9V 17 = 17V 22 = 22V 26 = 26V 30 = 30V	Energy Rating X = 0.05J A = 0.1J B = 0.2J C = 0.3J	Capacitance 15 = 15pF 330 = 33pF 380 = 38pF 470 = 47pF 820 = 82pF 102 = 1000pF	Tolerance N = ±30% M = ±20%	Packaging R = 4k pcs D = 7" reel (1,000 pcs) R = 7" reel (4,000 pcs) T = 13" reel (10,000 pcs) W = 7" Reel (10,000 pcs) 0402 only)	Termination P = Ni Barrier/ 100% Sn (matte)

Part Number	VW (DC)	VW (AC)	VB	VC	IL	ET	IP	Сар	Cap Tolerance	Case Size
VCAC060309B102N	9.0	6.4	12.7±15%	22	25	0.2	120	1000	±30%	0603
VCAC060317X150N	17	12	27±20%	52	10	0.05	2	15	±30%	0603
VCAC060317X330M	17	12	27±20%	52	10	0.05	2	33	±20%	0603
VCAC060322A470N	22	17	32.5±25%	50	10	0.1	30	47	30%	0603
VCAC060326C820M	26	20	36.0±15%	67	10	0.3	30	82	20%	0603
VCAC040230X380N	30	21	41±10%	67	5	0.05	10	38	±30%	0402

VW(DC)	DC Working Voltage [V]	I _L
VW(AC)	AC Working Voltage [V]	Ε _τ
VB	Breakdown Votage [V @ 1mADC]	I _P
VC	Clamping Votage [V @ 1A]	Сар

Maximum leakage current at the working voltage, 25°C [µA]

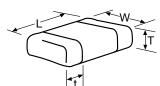
Transient Energy Rating [J, 10x1000µS]

- Peak Current Rating [A, 8x20µS]
- Capacitance [pF] @ 1KHz specified and 0.5VRMS, 25°C

mm (inches)

0603 DISCRETE DIMENSIONS

				· · · · ·
Size (EIA)	Length (L)	Width (W)	Max Thickness (T)	Land Length (t)
0402	1.00±0.10	0.50±0.10	0.60	0.25±0.15
	(0.040±0.004)	(0.020±0.004)	(0.024)	(0.010±0.006)
0603	1.60±0.15	0.80±0.15	0.90	0.35±0.15
	(0.063±0.006)	(0.031±0.006)	(0.035)	(0.014±0.006)

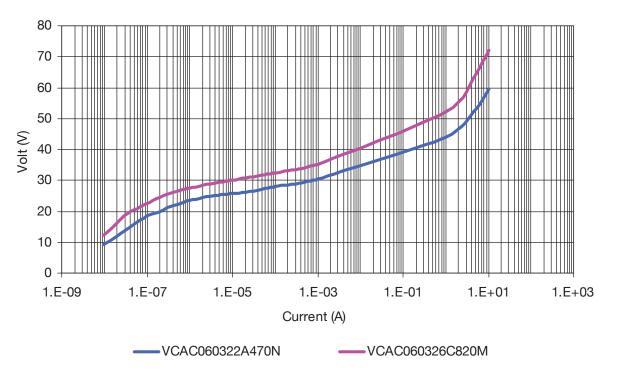


080520

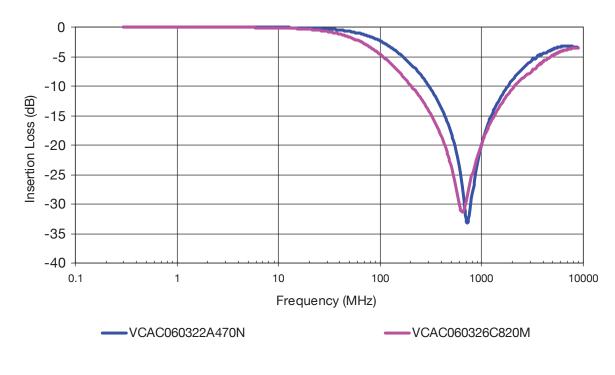
Controlled Capacitance Multilayer Varistor



V-I Curve







KUCERA The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KYOCERA AVX: VCAC060326C820MRP VCAC060322A470NRP