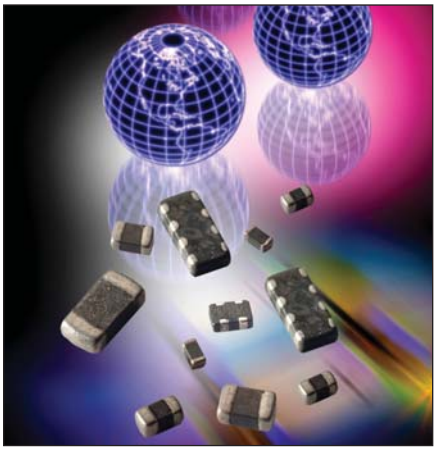
High Temperature Automotive

150ºC Rated Varistors



GENERAL DESCRIPTION

AVX High Temperature Multi-Layer Varistors are designed for underhood applications. Products have been tested, qualified, and specified to 150ºC. The MLV advantage is EMI/RFI attenuation in the off state. This allows designers the ability to combine the circuit protection and EMI/RFI attenuation function into a single highly reliable device.

FEATURES

- Rated at 150°C
- AEC Q200 qualified
- ESD rating to 25kV contact
- EMI/RFI attenuation in off state
- Excellent current and energy handling

APPLICATIONS

- Under hood
- Down Hole Drilling
- Any high temperature application

CAN SERIES

HOW TO ORDER

CAN	AT	01	R	P
Type	**Series**	**Case Size**	**Packaging**	**Termination**
Controlled Area Network Varistor	Automotive High Temperature	01 = 0603 02 = 0405 2-Element 04 = 0612 4-Element	D = 7" (1000 pcs) R = 7" (4,000 pcs) T = 13" (10,000pcs)	P = Ni Barrier/ 100% Sn (matte)

RoHS COMPLIANT

AVX Part Number	V_W (DC)	V_W (AC)	V_B	I_L	E_T	I_P	Cap	Case Size	Elements
CANAT01--	≤ 18	≤ 14	120	10	0.015	4	22	0603	1
CANAT02--	≤ 18	≤ 14	70	10	0.015	4	22	0405	2
CANAT04--	≤ 18	≤ 14	100	10	0.015	4	22	0612	4

V_W(DC) DC Working Voltage [V]
V_W(AC) AC Working Voltage [V]
V_B Breakdown Votage [V @ 1mA$_{DC}$]
V_C Clamping Votage [V @ IVC]

I_L Maximum leakage current at the working voltage [µA]
E_T Transient Energy Rating [J, 10x1000µS]
I_P Peak Current Rating [A, 8x20µS]
Cap Capacitance [pF] @ 1KHz specified and 0.5VRMS

ANTENNAGUARD SERIES

HOW TO ORDER

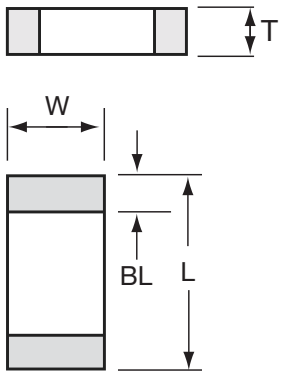
VCAT	06	AG	18	120	Y	A	T	1	A
Type	**Case Size**	**Varistor Series**	**Working Voltage**	**Cap**	**Non-Std. Cap Tolerance**	**N/A**	**Termination Finish**	**Reel Size**	**Reel Quantity**
High Temperature Varistor	04 = 0402 06 = 0603	AntennaGuard	18 = 18Vdc				P = Ni Barrier/ 100% Sn	1 = 7" 3 = 13"	A = 4000 or 10,000

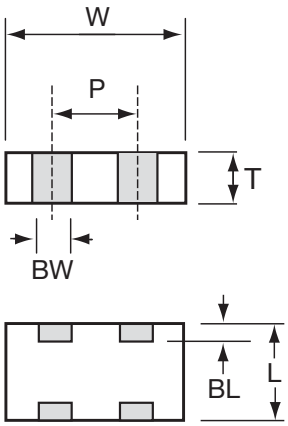
AVX Part Number	V_W (DC)	V_W (AC)	I_L	Cap	Cap Tolerance	Case Size
VCAT06AG18120YAT--	≤ 18	≤ 14	10	12	+4, -2pF	0603

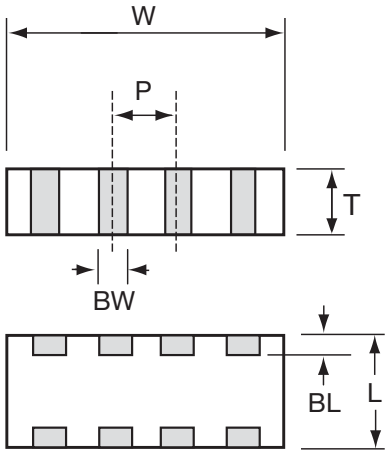
V_W(DC) DC Working Voltage [V]
V_W(AC) AC Working Voltage [V]

I_L Maximum leakage current at the working voltage [µA]
Cap Capacitance [pF] @ 1KHz specified and 0.5VRMS

PHYSICAL DIMENSIONS







0603 Discrete Dimensions

mm (inches)

L	W	T	BW	BL	P
1.60±0.15 (0.063±0.006)	0.80±0.15 (0.032±0.006)	0.90 MAX (0.035 MAX)	N/A	0.35±0.15 (0.014±0.006)	N/A

0405 2 Elements Array Dimensions

mm (inches)

L	W	T	BW	BL	P
1.00±0.15 (0.039±0.006)	1.37±0.15 (0.054±0.006)	0.66 MAX (0.026 MAX)	0.36±0.10 (0.014±0.004)	0.20±0.10 (0.008±0.004)	0.64 REF (0.025 REF)

0612 4 Elements Array Dimensions

mm (inches)

L	W	T	BW	BL	P
1.60±0.20 (0.063±0.008)	3.20±0.20 (0.126±0.008)	1.22 MAX (0.048 MAX)	0.41±0.10 (0.016±0.004)	$0.18^{+0.25}_{-0.08}$ ($0.008^{+.010}_{-.003}$)	0.76 REF (0.030 REF)