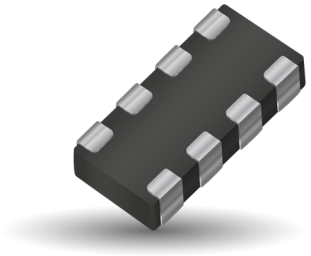
High Temp. Low Leakage Automotive Varistors

150°C Rated Low Leakage Automotive Varistors



GENERAL DESCRIPTION

KYOCERA AVX High Temperature Low Leakage Multi-Layer Varistors are designed for underhood and high temperature applications where low leakage component is required Parts are tested, qualified and specified to 150°C.

The MLV advantage is EMI/RFI attenuation in the off state. This allows designers the ability to to combine the circuit protection and EMI/RFI attenuation function into a single highly reliable device.

GENERAL CHARACTERISTICS

- Operating Temperature: -55°C to +150°C

FEATURES

- Rated at 150°C
- AEC Q200 qualified
- ESD rating to 25kV (HBM ESD Level 6)
- EMI/RFI attenuation in off state
- Very Low Leakage

APPLICATIONS

- Under hood
- High temperature applications
- Bus Interface Protection
- CAN Bus
- BCM, TCU
- Capacitance sensitive applications and more

COMMUNICATION BUS - HIGH TEMPERATURE LOW LEAKAGE VARISTOR

HOW TO ORDER

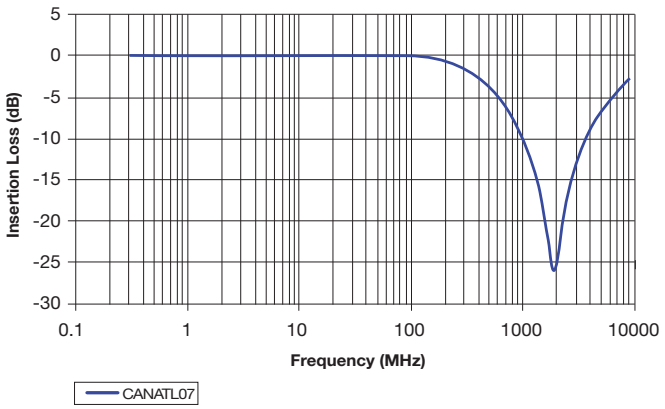
CAN	ATL	07	R	P
Type Controlled Area Network Varistor	**Series** Automotive High Temperature Low Leakage	**Case Size** 07 = 0603	**Packaging** D = 7" (1000 pcs) R = 7" (4,000 pcs) T = 13" (10,000pcs)	**Termination** P = Ni Barrier/100% Sn

RoHS COMPLIANT

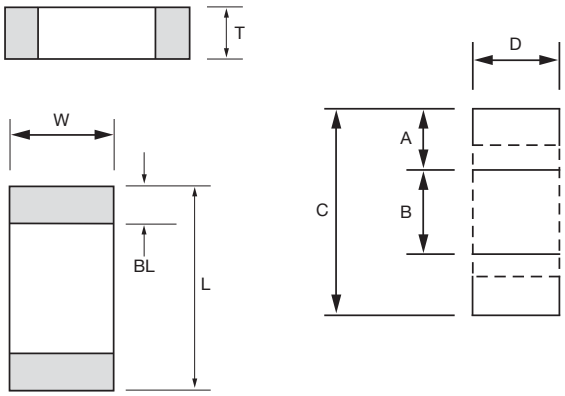
PN	VW (DC)	VW (AC)	VB	VC	IVC	IL	ET	IP	Typ Cap	Cap Tol	Freq	VJump	PDiss max
CANATL07	32	25	61±15%	120	1	<1	0.05	5	10	±50%	M	27.5	0.003

V_W(DC)	DC Working Voltage [V]	E_T	Transient Energy Rating [J, 10x1000µS]
V_W(AC)	AC Working Voltage [V]	I_P	Peak Current Rating [A, 8x20µS]
V_B	Breakdown Votage [V @ 1mADC, 25°C]	Cap	Capacitance [pF] @ 1KHz specified and 0.5V_{RMS}
V_C	Clamping Voltage [V @ IVC]	V_{Jump}	Jump Start [V, 5 min]
I_{VC}	Test Current for VC [A, 8x20µs]	P_{DISS}	Max Power Dissipation [W]
I_L	Maximum leakage current at the working voltage, 25°C [µA]		

S21 CHARACTERISTICS



PHYSICAL DIMENSIONS AND RECOMMENDED PAD LAYOUT



0603 DISCRETE DIMENSIONS

mm (inches)

L	W	T	BL
1.60±0.15 (0.063±0.006)	0.80±0.15 (0.032±0.006)	0.90 MAX (0.035 MAX)	0.35±0.15 (0.014±0.006)

0603 SOLDERING PAD

mm (inches)

A	B	C	D
0.89 (0.035)	0.76 (0.030)	2.54 (0.100)	0.76 (0.030)