

High Temperature Low Leakage Automotive Varistors

150°C Rated Low Leakage Automotive Varistors



GENERAL DESCRIPTION

AVX High Temperature Low Leakage Multi-Layer Varistors are designed for under-hood 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 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	Series	Case Size	Packaging	Termination	
Controlled Area Network Varistor	Automotive High Temperature Low Leakage	07 = 0603	D = 7" (1000 pcs) R = 7" (4,000 pcs) T = 13" (10,000 pcs)	P = Ni Barrier/100% Sn	

PN	V _w (DC)	V _w (AC)	V _B	V _C	I _{VC}	I _{L1}	I _{L2}	E _T	I _P	Typ Cap	Cap Tol	Freq	V _{Jump}	P _{Diss max}
CANATL07	32	25	61±15%	120	1	1	<1	0.05	5	10	±50%	M	27	0.003

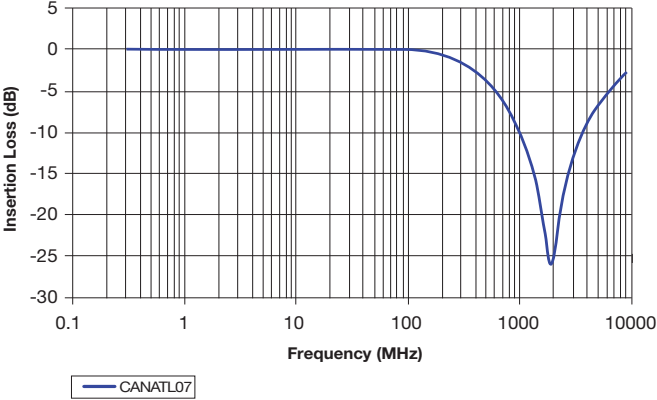
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|---------------------|---|-------------------|---|
| V _w (DC) | DC Working Voltage [V] | I _{L2} | Typical leakage current at 28Vdc, 25°C [µA] |
| V _w (AC) | AC Working Voltage [V] | E _T | Transient Energy Rating [J, 10x1000µS] |
| V _B | Breakdown Voltage [V @ 1mA _{DC} , 25°C] | I _P | Peak Current Rating [A, 8x20µS] |
| V _C | Clamping Voltage [V @ I _{VC}] | Cap | Capacitance [pF] @ 1KHz specified and 0.5V _{RMS} |
| I _{VC} | Test Current for VC [A, 8x20µs] | V _{Jump} | Jump Start [V, 5 min] |
| I _{L1} | Maximum leakage current at the working voltage, 25°C [µA] | P _{Diss} | Max Power Dissipation [W] |

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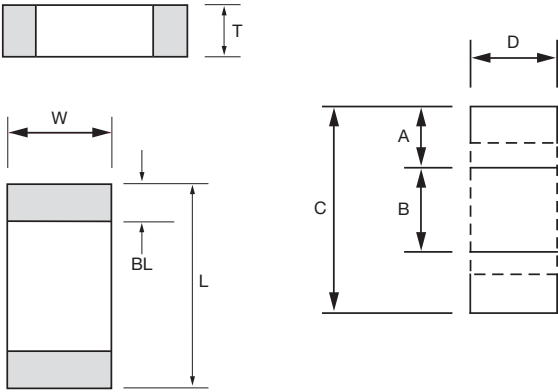


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S21 CHARACTERISTICS



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)