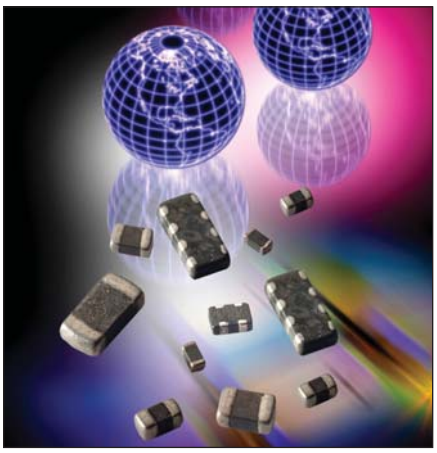
# High Temperature Low Leakage Automotive Varistors

## 150ºC 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 150ºC.

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: -55ºC to 150ºC

## 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)<br>R = 7" (4,000 pcs)<br>T = 13" (10,000pcs) | P = Ni Barrier/100% Sn |

RoHS COMPLIANT

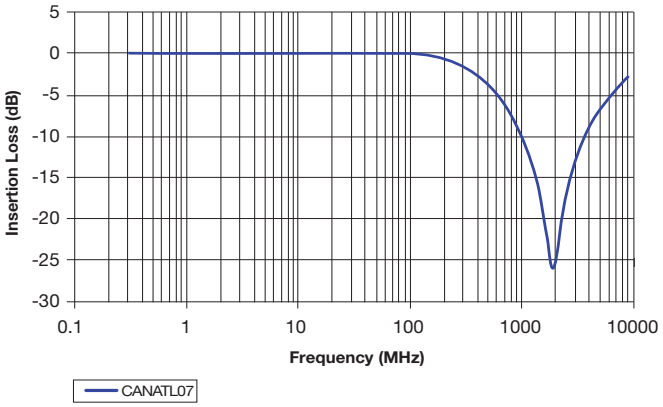
| PN | $V_W$(DC) | $V_W$(AC) | $V_B$ | $V_C$ | $I_{VC}$ | $I_{L1}$ | $I_{L2}$ | $E_T$ | $I_P$ | Typ Cap | Cap Tol | Freq | $V_{Jump}$ | $P_{Diss\ max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CANATL07 | 32 | 25 | 61±15% | 120 | 1 | 1 | <1 | 0.05 | 5 | 10 | ±50% | M | 27.5 | 0.003 |

| | |
|---|---|
| $V_W$(DC) | DC Working Voltage [V] |
| $V_W$(AC) | AC Working Voltage [V] |
| $V_B$ | Breakdown Votage [V @ 1mA$_{DC}$, 25ºC] |
| $V_C$ | Clamping Votage [V @ $I_{VC}$] |
| $I_{VC}$ | Test Current for VC [A, 8x20µs] |
| $I_{L1}$ | Maximum leakage current at the working voltage, 25ºC [µA] |
| $I_{L2}$ | Typical leakage current at 28Vdc, 25°C [µA] |
| $E_T$ | Transient Energy Rating [J, 10x1000µS] |
| $I_P$ | Peak Current Rating [A, 8x20µS] |
| Cap | Capacitance [pF] @ 1KHz specified and 0.5$V_{RMS}$ |
| $V_{Jump}$ | Jump Start [V, 5 min] |
| $P_{DISS}$ | Max Power Dissipation [W] |

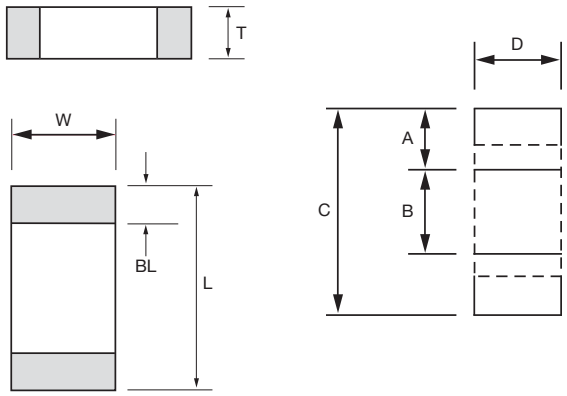
# High Temperature Low Leakage Automotive Varistors

## 150ºC Rated Low Leakage Automotive Varistors

### 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) |

# Mouser Electronics

Authorized Distributor

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

Kyocera AVX:

CANATL07RP CANATL07DP