



AMTS® SERIES

ADVANCED MOTOR TRANSIENT SUPPRESSOR VARISTORS



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BASIC OVERVIEW

KYOCERA AVX's radial leaded AMTS products are a dual function product - multilayer, zinc oxide transient voltage suppressor combined with EMI filtering multilayer ceramic capacitors in a three leaded radial package.

AMTS are designed to provide both transient voltage protection and EMI/RFI suppression for electric motor circuits.



APPLICATIONS

- Automotive & Transportation
- EMI Filtering with Surge Protection
- Electric Vehicles
- DC Motors
- Power Supplies
- Inductive Switching
- Load Dump

GENERAL CHARACTERISTICS

AMTS Series components are ideally suited to filter out EMI/RFI noise generated by electric motors when they are operated.

With multilayer varistor (MLV) utilized in AMTS product, effective transient voltage protection is achieved to protect sensitive electronics from high voltage transients. The capacitors suppress high frequency noise on the line and between the line and housing. The MLCC capacitors are designed with temperature stable X7R dielectric, allowing for wide temperature use with good capacitance stability.

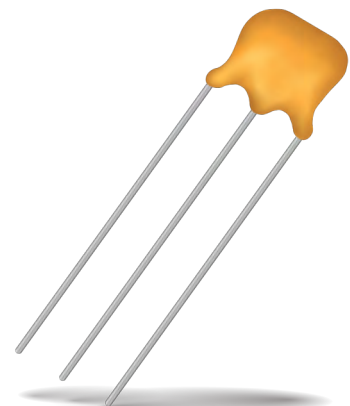
KEY SPECIFICATIONS

- Custom Designs
- Three-Leaded Epoxy Encapsulated Radial Device
- Combination of a Varistor and Capacitors
- Operating Temperature: -40°C to +85°C
- AEC-Q200 Qualified

TOP SELLING POINTS / CHARACTERISTICS

- Custom Designs
- AEC-Q200 Qualified
- Integrated Space Savings
- Multifunctional Solution in a Single Package
- Bi-Directional Protection

**Contact KYOCERA AVX with your custom requirements*





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ELECTRICAL CHARACTERISTICS

Part Number	V _w (DC)	V _w (AC)	V _B (V)	V _C (V)	I _{vc} (A)	I _L (μA)	E _T (J)	E _{LD} (J)	I _P (A)	Cap (C1)	Cap (C2)	Cap. Tol. (C1, C2)	Configuration
AMTS003	18	13.0	33±10%	54	1	15	0.7	1.5	200	1.0μF	120nF	±30%	A
AMTS010B	18	13.0	33±10%	54	1	15	0.7	1.5	200	–	100nF	±30%	B
AMTSxxxx	Your Custom Design Here												

V_w(DC)

DC Working Voltage [V]

V_w(AC)

AC Working Voltage [V]

V_B

Min/Max Breakdown Voltage [V @ 1 mADC, 25°C]

V_C

Clamping Voltage [V @ I_{VC}]

I_{vc}

Test Current for VC [A, 8x20μS]

I_L

Maximum Leakage Current at the Working Voltage [μA, 25°C]

E_T

Transient Energy Rating [J, 10x1000μS]

E_{LD}

Load Dump Energy [J]

I_P

Peak Current Rating [A, 8x20μS]

Cap (C1)

Capacitance for C1

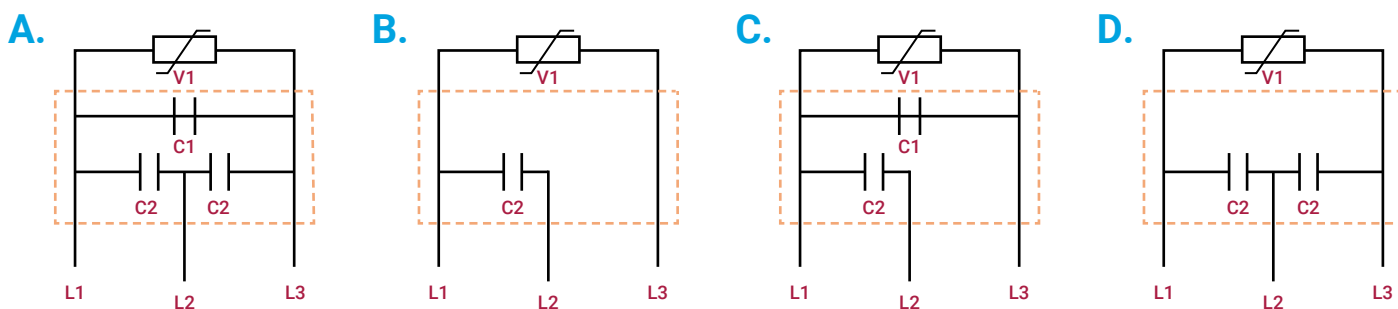
Cap (C2)

Capacitance for C2

Cap. Tol. (C1, C2)

± 30% for both capacitors

TYPICAL CONFIGURATIONS



For more information, please contact us at circuitprotection@kyocera-avx.com.

