

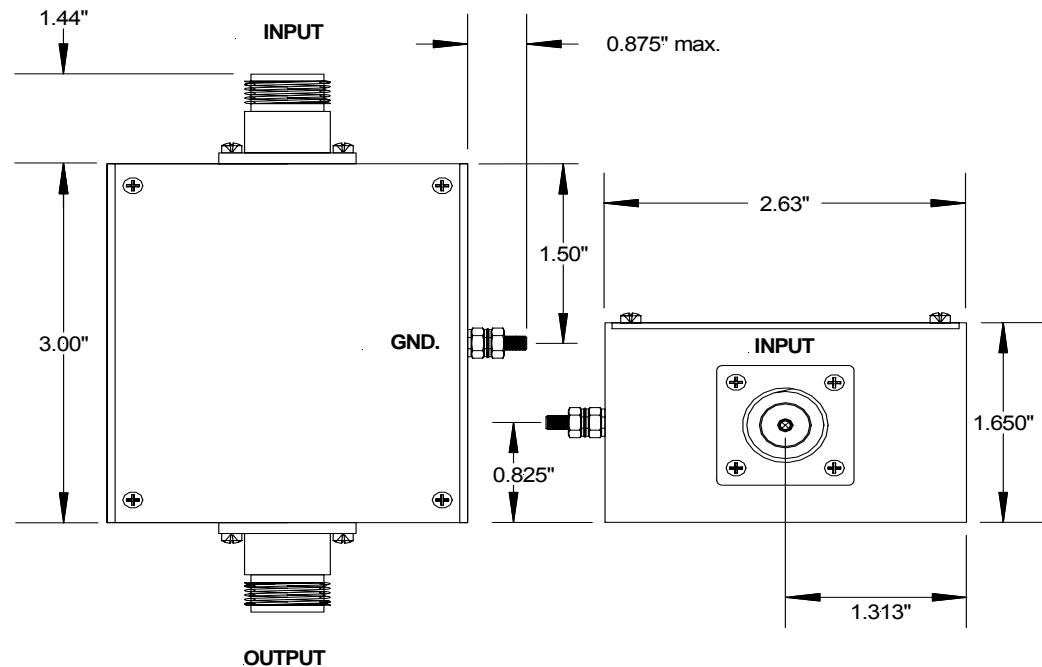
WARNING - HAZARDOUS VOLTAGES MAY BE PRESENT. Improper installation may result in serious injury to the installer and/or damage to the electrical system or connected communication equipment. Read and understand all instructions before beginning the installation. Safety equipment must be used as prescribed by OSHA, whenever working around hazardous voltages.

Failure of unit and/or consequential equipment damage due to improper installation or misapplication is not covered by the product warranty.

Voltage measurements, data transmission rates and **installation must be completed by a certified technician** in accordance with the National Electric Code, State, and Local codes. The National Electric Code, State and Local Code requirements supersede this instruction.

POWER MUST BE REMOVED FROM THE ELECTRICAL SYSTEM BEFORE INSTALLING ANY COAXIAL SERIES TVSS DEVICE.

CONNECTION DIAGRAMS



BEFORE INSTALLATION

Prior to installation of any COAX series unit:

- **1 – Test system to verify that the voltage and current do not exceed the Maximum Continuous Operating Levels listed in the table below.**
- **2 – Actual measurement with an oscilloscope, or verification through review of 'as installed' equipment specifications may be sufficient to establish operational compliance.**
- **3 – If the circuit exceeds Maximum Continuous Operating Levels in voltage, current, transmission rate and/or frequency, do not proceed with the installation!**

The following series Coaxial (ST-COAX-HP) suppression devices are designed to protect Ether-LAN Systems, current loop circuits, signal lines and/or low speed data lines feeding transducers, leak detectors, flow meters, coax fed RTUs and a broad variety of similar sensory devices.

The following series Coaxial (COAX) suppression devices are designed to protect Home Entertainment/TV/VCR/VTRs, CATV/MATV, Video Cameras and Monitors, Video Security Systems & Switchers, CCD Cameras, CCTV Monitors, Coaxial T1 Lines, antenna coax and HAM radio receivers, as well as numerous other similar coaxial type applications. (Note: Some higher data rate systems may require a COAX-HP type model rather than a COAX type.).

There are no position-oriented components within the COAX series units; therefore, the devices can be mounted upside down or sideways to allow for the most efficient installation.

Maximum Continuous Operating Voltage, Current and Maximum Data Transmission Rate

Model	MCOV	MCOC	Maximum Data Transmission Rate	Frequency Range
ST-N-COAX	90 VDC	300 mA	≤ 150 Mbps	≤ 1.5 GHz

Note: Type 'N' coaxial connectors must be interfaced with the proper corresponding gender opposite for correct intermateability.

INSTALLATION STEPS

STEP 1:

- **CAUTION: Do not proceed further until power has been removed from the electrical system.**

STEP 2: Mounting the Unit

- Mechanically mount the suppressor using the mounting feet at the ends of the device.
- The device should be mounted for maximum separation between protected and unprotected wiring.
- The device contains no direction-oriented components and can be mounted in any position.
- The device should be the last device placed in the circuit before the protected equipment.
- The device should be mounted directly to, or as close as practical to the equipment to be protected.

STEP 3: Wiring the Unit

- Connect a ground wire (#6-12 AWG) from ground lug to system ground.
- Connect the incoming line COAX cable to the INPUT side connector.
- Connect the outgoing (to equipment or load) COAX cable to the OUTPUT side connector.

STEP 4: Restart the system and check for proper operation

- The system may require recalibration due to the additional resistance of the suppressor on the line. If the system does not operate properly, remove the suppressor and contact the local distributor.