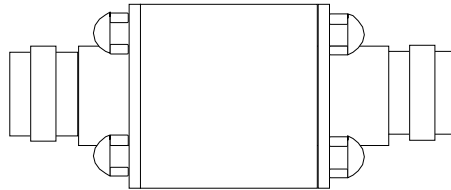




Type CSS

RF Coaxial Surge Suppressor



Radio transmitters, receivers, high frequency LANs and all high frequency cable systems require protection from transient over voltage due to lightning strikes causing direct induction or potential differences due to earth potential rise caused by spikes to buildings and towers.

Transient over voltage appearing between the inner conductor of the coaxial cable and its screen can directly damage receiver and line driver chips of communications equipment connected via coaxial cables.

The coaxial cable surge protectors contain fast response gas filled arrestors to provide low let through voltage for fast rise time transients. The use of low capacitance gas filled arrestors ensures operation at high frequencies with low insertion loss. The coaxial cable protector consists of a fast acting gas filled arrestor enclosed in an in line mounting with coaxial connectors on either end. The device is configured to minimise circuit capacitance and present a 50Ω characteristic impedance so that performance up to 2GHz is assured. Standard models provide protection for receivers and transmitters up to a 1kW power level. Models for higher power levels are readily available. A range of connectors is available

Installation is easily effected by connecting the protector in the coaxial line as close to the equipment to be protected as is practical. The essential aim of these protectors is to provide electrical clamping between the inner and outer conductors of coaxial cables. Normal precautions such as earthing coaxial cable sheaths at building points of entry are still vitally important. The N bulkhead models are specifically designed to be mounted at cable entry points. The bulkhead mount allows a secure earth connection to the cable entry plate and provides a convenient cable termination point. This is the preferred method of installation.

Specifications

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|------------------------------|---|
| Description | Gas arrestor over voltage surge protector for coaxial cable systems |
| Clamping Voltage | 1000V line to screen (DC) |
| Impulse Clamping | <1400v (1kV/us) |
| RF Power Level | 1kW PEP (higher power versions available) |
| Protection Stages | Gas filled surge arrester |
| Insulation Resistance | >10 ¹⁰ Ω |
| Capacitance | <1.5pF |
| Surge Withstand | 20KA (8/20us) |
| Insertion Loss | <0.2dB at 2 GHz |
| VSWR | 1.07:1 to 1GHz; 1.1:1 to 2GHz |
| Cable Impedance | Suitable for 50Ω systems; F connector types 75Ω |
| Dimensions | 70mm (max) x 25mm x 25mm |
| Connectors | 50Ω and 75Ω types available. Please specify |

Specifications subject to change – Issued 01/09/13

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