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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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GPS In-Line Lightning Arrestor



Key Features

- Industry's best RF Performance
- Low throughput energy
- Multi-strike capability

Lightning damages communications sites all over the world every day. Lightning does not have to strike the antenna to significantly damage the antenna or the GPS receiver. GPS antenna damage is usually due to the effects of a lightning strike on a nearby structure, not the result of a direct lightning strike. Since lightning strikes may induce damaging voltages in the antenna system when striking nearby objects, attempt to locate the antenna at least 15 meters away from lightning rods, towers, or structures that attract lightning. Also, locate the GPS antenna lower than any structures that will attract a strike.

Lightning arrestors will protect your systems from lightning damage. In-line lightning

arrestors are mounted on a low impedance ground between the antenna and the point where the cable enters the building. This is a commonly used configuration since there is often a good earth ground nearby to connect to. The lightning arrestors require no additional power or wiring except the ground lead.

If the cable between this lightning arrestor and the GPS receiver is longer than four meters, consider placing a second lightning arrestor within four meters of the GPS receiver. The second arrestor reduces any lightning-induced voltages in the cable to the receiver.

These units use separate RF (DC-Blocked) and dc paths through the protector. This design results in low throughput voltage and energy.

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GPS In-Line Lightning Arrestor

Specifications

Data and RF Specifications

- Frequency range: 800 to 2500 MHz
- Insertion loss: ≥ 0.1 dB over frequency range
- Voltage standing wave ratio: 1.1 : 1

Electrical Specifications

- Current: 4 Adc
- Power: 2.25 Watts RMS average
- Turn on: +16.5 V dc
- Turn on time: 4 ns for 2 kV / ns
- Operating voltage: +15 V
- Usage current: ≥ 4.0 mA continuous
- Unit impedance: 50 W
- Polarity: +

Interface Specifications

- Mounting: Bulkhead or flange
- Protected side connector: TNC Female 50 W
- Surge side connector: TNC Female 50 W

Product Includes

- Lightning arrestor, 25' or 50' Beldon 9104 cable with TNC terminations

Environmental Specifications

- Relative humidity: to 95%
- Temperature range: -50°C to +85°C storage/operating
- Weatherization: Meets 60529 IPC67 Meets Bellcore #TA-NWT-000487 Procedure 4.11, wind drive (120 mph) rain intrusion test
- Maximum surge: 20 kA IEC 61000-4-5
8 / 20 microsecond waveform
- Throughput energy: ≥ 500 μ J @ 8 / 20 μ s Waveform

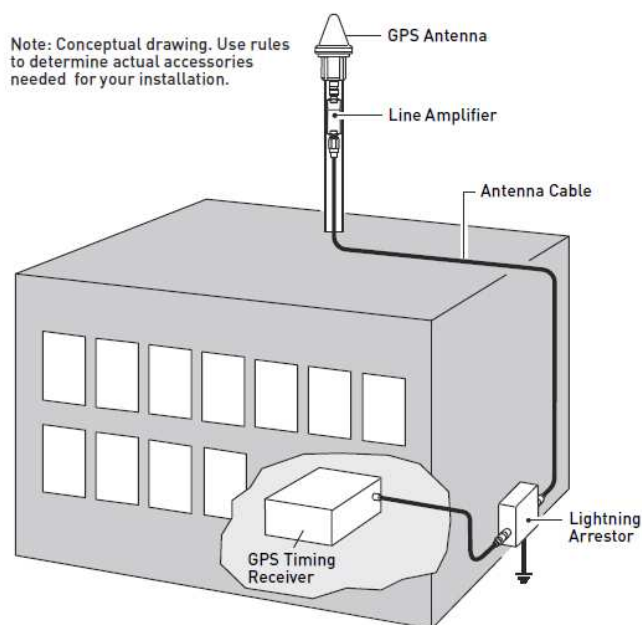
CE Compliance

EN 60950-1 2006/A11:2009/A1:2010 A12:2011
RoHS 2 2011/65/EU

Options and Ordering Information (contact Microsemi for pricing and availability)	Part Number
GPS Lightning arrestor kit w/25 ft. (7.5 m) cable	150-709
GPS Lightning arrestor kit w/50 ft. (15 m) cable	150-710



Lightning Arrestor Kit (shown with 25' cable)



Common GPS Antenna Equipment Placement



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