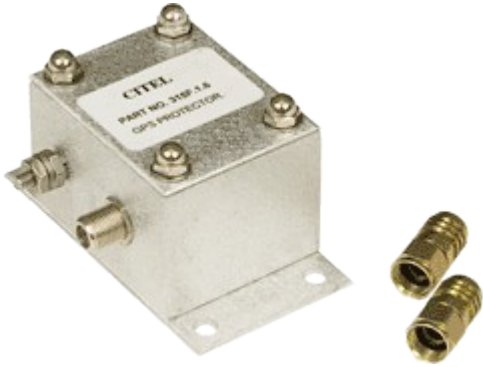


# AS0049000 GPS Surge Protector Kit - DISCONTINUED



GPS Surge Protector Kit. Replaced by [AS0094500](#).

GPS receivers are very sensitive devices and are vulnerable to a phenomenon known as voltage surges and electrical transients. Sources of electrical surges are numerous. The most common is a nearby lightning strike, which will affect nearby lines through induction. Industrial transients are also significant because they are man made disturbances caused by switching and commuting of electrical motors. The operation of such devices can cause abrupt shifts in the ground potential that can generate a current flow through a nearby cable in order to equalize the ground potential.

## Surge Protector Electrical Characteristics

- Designed for GPS Protection
- Frequency Range: 1.2 - 1.6 GHz
- Allows the passage of antenna energizing voltage: 5 Vdc
- Multi-stage circuitry using heavy duty gas tube, toroidal inductor and capacitor
- Response time: Less than 1 nanosecond
- Power Handling: 20,000 Amps (8/20 microsecond)
- Insertion Loss: less than 0.1 dB at 2 GHz
- Operating Temperature: - 40 ° to 250 °. F

## Usage

Place the AS0049000 between the antenna and the GPS receiver, near a ground point with a short ground run. AS0049000 has two threaded studs with nuts to attach a ground cable to the surge protector, and two type F connectors for input from antenna and output to GPS clock.