



## 17-501/17-502 2.4GHz GD Lightning Arrestor

Data Sheet 051805

Lightning surge arrestors are in-line devices for connection in RF transmission lines to protect radio equipment down-stream from the antenna from excessive lightning induced voltages.

### Main Features

- Gas discharge technology
- Field replaceable discharge tube (with multi-strike capability)
- Low 0.1dB insertion loss at 2.4 GHz
- Maintenance free
- Fast response time
- Supplied with aluminium mounting bracket
- Optional flexible high current earth strap
- Manufactured by Teletronics (USA)

Note: Gas discharge devices present an open circuit to DC and are ideal for use in power injected transmission lines.



### Electrical Specifications

Frequency	0 – 2500MHz
Type	Gas discharge
Impedance	50 Ohms
Insertion loss	0.1 typical, 0.2dB max
VSWR	<1.1:1
Maximum Power	75 Watts
Peak surge current	20,000 Amp
Response time	1.2µs

### Mechanical Specifications

Connectors	N-Female/N-Female (17-501) N-Female/N-Male (17-502)
Earth strap length	300mm
Operating temperature	-20°C to 80°C

### Installation

The arrestor can be installed in either direction relative to the antenna and radio.

1. Attach the aluminium mounting plate securely to the structure in a manner that provides a good earth.
2. Push the arrestor end with black rubber O-ring through the mounting plate and secure with washer and nut (supplied)
3. For maximum protection the earth strap should be connected to the same low impedance earth as the outer conductor of the coaxial transmission line.