

# Wide Band Lightning Protector

## LP3G-TNC

The LP3G-TNC Lightning Protector is a gas discharge tube suppressor featuring wide-band operation up to 3 GHz. This unit features a TNC-Male to TNC-Female Bulkhead connector with a rubber O-ring seal for mounting through an enclosure wall or with the included aluminium mounting bracket.



Due to its low cost and superior RF performance, this unit is ideal for IEEE 802.11b and 802.11g Wireless LAN applications, as well as ISM, MMDS, Cellular, and PCS applications. Since this protector will pass DC, it is suitable for applications where DC is carried through the coax cable, such as remote amplifiers and LNAs.

Both connector ports of this unit are equally protected. This provides protection no matter which way it is installed. Either port can face the antenna and either port can face the equipment.

### Ordering Information

| Art.no  | Description                   |
|---|-------------------------------|
| 9301-1001   | Wide band Lightning protector |
| <ul style="list-style-type: none"> <li>• Wide band 0 – 3GHz</li> <li>• Bi-directional protection</li> <li>• Multi-strike capability</li> <li>• Gas discharge tube compressor</li> <li>• Mounting bracket / bulkhead enclosure mounting</li> </ul> |                               |

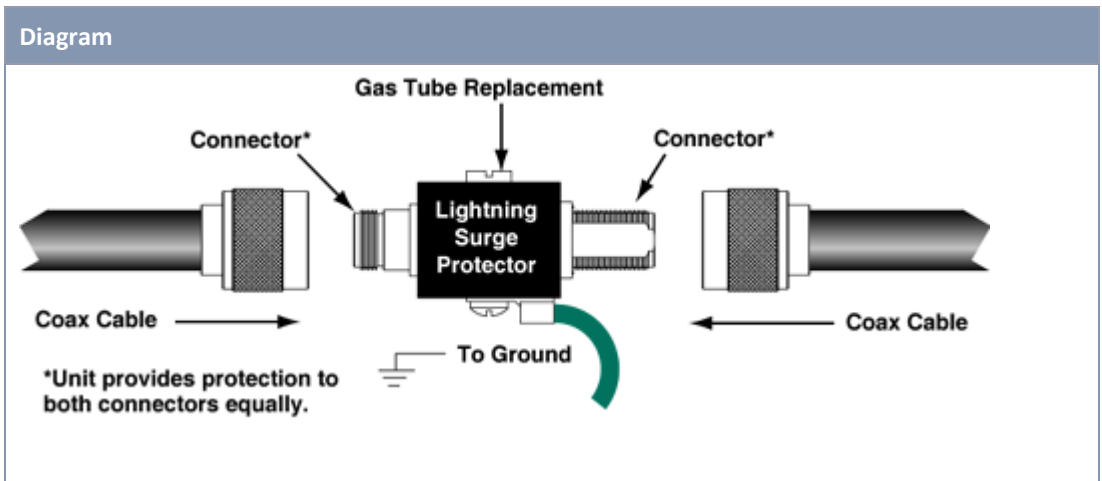
### Specifications

| Electrical     |           | Mechanical |                            |
|----------------|-----------|------------|----------------------------|
| Frequency      | 0-3GHz    | Dimensions | 78 x 40 x 20mm             |
| Impedance      | 50 Ω      | Weight     | 90g                        |
| VSWR           | 1:1.3 max | Connector  | TNC (m) / TNC (f) bulkhead |
| Insertion Loss | 0.4dB max | Material   | Aluminium                  |

|                                       |           |                      |                |
|---------------------------------------|-----------|----------------------|----------------|
| Gas Tube Element DC Breakdown Voltage | 90V 20%   | <b>Environmental</b> |                |
| Gas Tube Impulse Breakdown Voltage    | 1000V 20% | Operating Temp.      | -55°C to 85°C  |
| Gas Tube Insulation Resistance        | 10,000 MΩ | Ingress Protection   | IP65 / IEC 529 |
| Maximum Withstand Current             | 5KA       |                      |                |

**Other**

This part is RoHS compliant



**Additional Part Required**

| Part Number    | Description                   | Notes                             |
|----------------|-------------------------------|-----------------------------------|
| ANTC-868-20CM  | 20cm flexible fly lead        | Connects router/modem to LP3G-TNC |
| ANTC-868-LP-x  | Coaxial feeder cable          | Connects LP3G-TNC to antenna      |
| ANTC-2400-LP-x | Low loss coaxial feeder cable | Connects LP3G-TNC to antenna      |

x = length in metres (multiples of 5m available)