

## 0-6 GHz Lightning Surge Protector N-Female to N-Female Bulkhead

Model: AL6-NFNFB-9

### Applications and Features

- Applications:**
- IEEE 802.11b and 802.11g Wireless LAN Applications
  - ISM
  - MMDS
  - Cellular
  - PCS Applications

- Features:**
- Reliable Performance from DC ~ 6 GHz
  - Competitively Priced
  - High Quality Construction
  - Easily Replaced Gas Tube Element
  - Multi-Strike Capability
  - Bi-Directional Protection
  - Protector will pass DC
  - Mounting Bracket Included



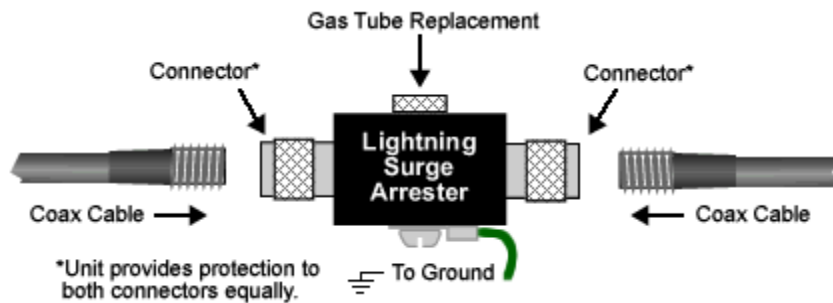
### Product Description

The Altelicon™ Lightning Protector Model AL6-NFNFB is a very high-performance gas discharge tube suppressor featuring wide-band operation up to 6 GHz. The unit features a bulkhead N-Female connector with a rubber "O"-ring seal for mounting through an enclosure wall or using the included stainless steel mounting bracket.

Due to its superior RF performance this unit is ideal for IEEE 802.11a and other 5.2 - 5.8 GHz ISM and UNII applications, as well as 3.5 GHz WLL 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 LNA's.

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.

The unit's replaceable gas tube element, multi-strike capability and fast response time make it suitable for a wide range of applications. A ground lug and terminal is provided directly on the lightning protector housing, which provides superior grounding.



## Specifications

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### Electrical Specifications

<b>Frequency Range</b>	0 - 6 GHz
<b>VSWR</b>	1:1.5 Max (0 - 6 GHz)
<b>Insertion Loss</b>	0.5 dB Max (0 - 6 GHz)
<b>Impedance</b>	50 Ohm
<b>Gas Tube Breakdown Voltage</b>	90 V $\pm$ 20%
<b>Gas Tube Impulse Breakdown Voltage</b>	1000 V $\pm$ 20%
<b>Gas Tube Insulation Resistance</b>	10,000 M $\Omega$
<b>Maximum Withstand Current</b>	5 KA
<b>RF Power Rating (CW)</b>	10 W Continuous

### Mechanical Specifications

<b>Connectors</b>	N-Female to Bulkhead N-Female
<b>Connector Body Material</b>	Nickel Plated Brass
<b>Body Material</b>	Nickel Plated Brass
<b>Pin Material</b>	Gold Plated Brass
<b>"O"-Ring Material</b>	Rubber
<b>Bracket Material</b>	Stainless Steel
<b>Ground Lug</b>	10 AWG Max.
<b>Dimensions (max)</b>	64 x 23 x 34 mm (2.52 x .91 x 1.34 in)