

UHF-Female to UHF-Female Bulkhead 0-3 GHz 600V Coaxial Lightning Protector Model: AL-UFUFB-6

Applications

- Mobile radio equipment hookups between antennas and transmitters/receivers
- CB communication systems
- Public address systems
- Civil defense, ship-to-shore communications
- Ground control apparatus, CCTV & landing systems

Features

- Reliable performance from DC ~ 3 GHz
- Bi-directional protection
- Protector will pass DC
- Replaceable gas tube element
- Optional 90V, 230V and 350V gas tubes available



Description

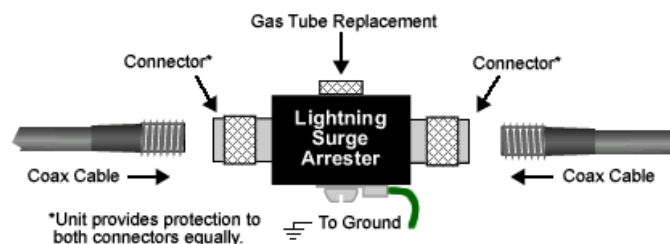
Lightning Protector Model AL-UFUFB-6 is a gas discharge tube suppressor featuring wide-band operation up to 3 GHz. This unit features a UHF-Female (Type SO239) to UHF-Female (Type SO239) Bulkhead connector with a rubber O-ring seal for mounting through an enclosure wall.

Due to its low cost and superior RF performance, this unit is ideal for Mobile Radio Equipment hookups between antennas and transmitters/receivers, and for CB Communication Systems, such as: Public Address Systems, Civil Defense, Ground Control Apparatus, Ship-to-Shore Communications, CCTV, Landing Systems. 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 or 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 are supplied directly on the lightning protector housing, which provides superior grounding.

Replacement gas tube elements are available on the L-com web site.



Specifications

Electrical Specifications

| | |
|---|-------------------------|
| Frequency Range | 0 – 3 GHz |
| VSWR | 1:1.3 Max. (0 – 3 GHz) |
| Insertion Loss | 0.4 dB Max. (0 – 3 GHz) |
| Impedance | 50 Ohm |
| Gas Tube Element: DC Breakdown Voltage Indicated | 600V 20% |
| Gas Tube Impulse Breakdown Voltage | 1000V 20% |
| Gas Tube Insulation Resistance | 10,000 MΩ |
| Maximum Withstand Current | 5 KA |

RF Power Rating

| Voltage Rating | DC ~ 30 MHz | | 30 ~ 500 MHz | | 500 MHz ~ 3 GHz | |
|----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| | PEP ¹ | CW ² | PEP ¹ | CW ² | PEP ¹ | CW ² |
| 600 Volt | 2KW | 1KW | 800W | 400W | 320W | 160W |

Notes:

1 - Peak Envelope Power (PEP): The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle at the crest of the modulation envelope taken under normal operating conditions.

2 - Continuous Wave (CW): A wave of constant amplitude and constant frequency.

Mechanical Specifications

| | |
|-------------------------|---|
| Connectors | UHF-Female (Type SO239) to UHF-Female (Type SO239) Bulkhead |
| Connector Body Material | Nickel Plated Brass |
| Body Material | Aluminum |
| Pin Material | Gold Plated Brass |
| O-Ring Material | Rubber |
| Ground Lug | 10 AWG Max. |
| Dimensions (L x H x W) | 3.2 x 1.6 x 0.8 in. (82 x 40 x 20mm) |
| Weight | 3.17 oz (89.8g) |
| RoHS Compliant | Yes |