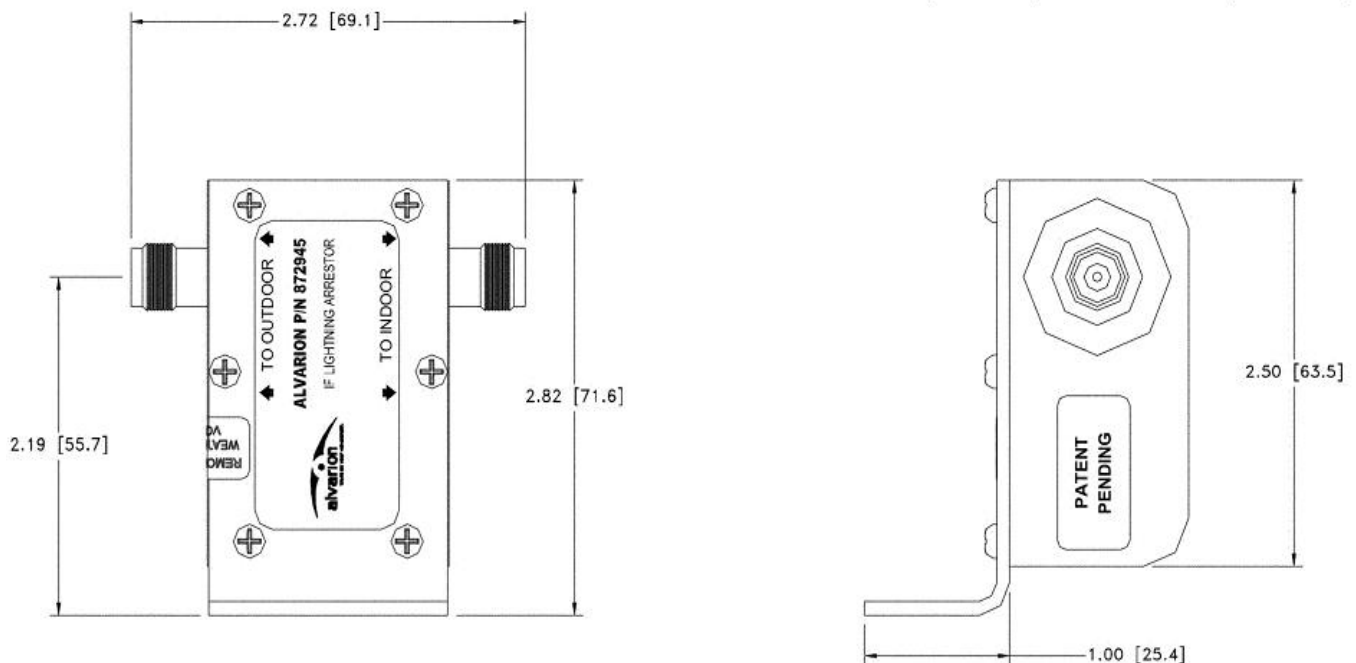


## BreezeACCESS IF TRIPLE MODE LIGHTNING ARRESTOR INSTALLATION

PLEASE READ **DANGER SHEET** BEFORE INSTALLING

**P/N 872945**

The 872945 is used as transmit and/or receive unit with dc voltage of +12Vdc @ 2 Amps. Maximum average RF power use is 5 watts. The protection circuit suppresses spikes over 16Vdc to the dc power supply. This unit is capable of a 20,000 Amp surge. The frequency range is 20 to 500MHz @ 50Ω. Connector Type is TNC to TNC, female on both ends.



### Installation

1. Mount to building surface using #10-12x1" screws (not included), or mount to tower/pole using mount clamp **P/N 825905-8** (not included).
2. Attach Outdoor Unit (ODU) cable to TNC connector labeled "TO OUTDOOR"
3. Attach Indoor Unit (IDU) cable to TNC connector labeled "TO INDOOR"
4. Use COAX Seal Tape or equivalent weatherproof seal.
5. Attach #10 Copper or #8 Aluminum ground wire to Ground Lug, then to earth ground.

### Please refer to these references for guidelines on total lightning protection.

1. **BreezeACCESS IF Triple Mode Lightning Arrestor Technical Specification Sheet's** arrestor.
2. **Alvarion's White Paper Recommendations for Protection Against Lightning Electromagnetic Impulse (LEMP)**

**IT IS VERY IMPORTANT THIS UNIT BE GROUNDED TO A LOW IMPEDANCE (LOW R AND LOW L) GROUND SYSTEM IN ORDER TO WORK PROPERLY.** We strongly recommend this ground be interconnected to tower ground and power ground to form one system. To minimize the "in-air" interconnect inductance to the ground system since skin effect is present, use as straight and as large surface area strap as possible. Keep bends to 8" radius, or larger.

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# DANGER SHEET

## PLEASE REVIEW THIS SHEET PRIOR TO ANY INSTALLATIONS

A GOOD GROUND SYSTEM IS REQUIRED FOR PROPER INSTALLATION AND OPERATION. THE IMPULSE SUPPRESSOR IS ONLY AS GOOD AT SUPPRESSING IMPULSES AS THE ELECTRICAL GROUND SYSTEM THAT IS CONNECTED TO THE UNIT.

DO NOT CONNECT WHEN A STORM IS NEAR. DO NOT CONNECT WHEN TRANSMISSIONS ARE OCCURRING.

50% of the time a lightning strike occurs in groups of two or three strokes with the first stroke having 20,000 amps and then less for the following strokes. Each stroke may have a rise time of 2.1 microseconds to the peak current and a delay between 10 to 40 microseconds.

Most antenna installations are mounted on a conductive mast or tower which when properly grounded, should conduct the larger share of the strike current, thus leaving only a fraction (50% or less) for the RF transmission line to handle. Therefore, the current capability of the Impulse Suppressor should be sufficient for all but the rare percentage of super strike occurrences when properly installed to a good low impedance ground system.

DO NOT STAY AROUND OPERATING EQUIPMENT IN AN ELECTRICAL STORM. THE IMPULSE SUPPRESSOR MAY SAVE YOUR EQUIPMENT FROM DANGER BUT CANNOT KEEP PERSONNEL IN THE AREA SAFE.

We recommend the coax, Power, and telephone protectors, if used, all be mounted / grounded together on a bulkhead plate or wall and the equipment chassis also be grounded ONLY to this plate. The plate is then grounded to your ground system. ONLY BY USING THIS SINGLE POINT GROUND SYSTEM CAN YOUR EQUIPMENT REALLY SURVIVE A DIRECT LIGHTNING STRIKE.

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