

Hi-Z AL Series Base Insulator Field Upgrade 1/2



Holding clamp. Clamp so that the lower Vertical end is exposed to connect Hi-Z Amp, no more.

Located so that the top of the coupler Extends about 1.25" above the angle mount

Upper clamp, clamped at Top of the Angle aluminum mount

Lower Clamp, clamped in the Middle of the PVC coupler

The standard insulator while being satisfactory has a higher Pf value than desired. The new insulator on average lowers the capacitance by ~55-60pf. This will allow the Hi-Z Amp to produce from 2-3db higher gain and therefore increasing system performance. As well as increasing the physical spacing of the element from the base mount.

Antenna terminal to Hi-Z Amp



Hi-Z AL Series Base Insulator Field Upgrade 2/2



- **To existing AL-series installed customers:**
- **Parts required per vertical – readily available at a hardware or building supply store**
 - **2 each- PVC couplers (3/4") that fit the current PVC insulator**
 - **2 each - next size up PVC couplers(1") – to fit over the couplers in the step above**
- Remove the existing base insulator and cut a 2" long piece and retain the remainder
- Push the PVC coupler that fits on the PVC pipe, one on each end of the 2" piece until both couplers bottom out – note there is a small tab on one end of the coupler, place this tab so it is pointed away from the center of the assembly
- Next push on the larger couplers over the couplers in the step above, you will likely need to push very hard or tap these couplers on until they both bottom out
- Take that remaining piece of PVC tubing and insert it into either end of the assembly, and bottom out this pipe into the internal smaller PVC coupler
- The new upgrade base insulator is complete. For reference the top of the insulator is the end with the PVC pipe expanding out.