

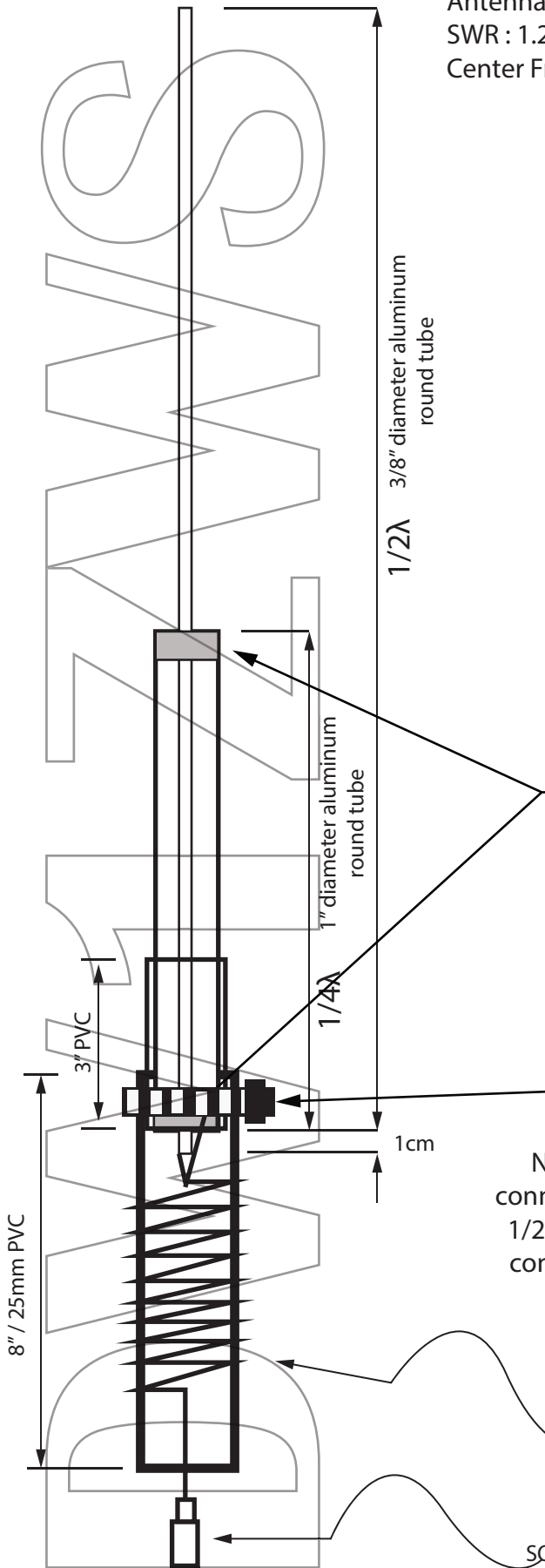
SLEEVE DIPOLE for 2m VHF Antenna

Antenna Gain: 3dBi Omni
SWR : 1.2 to 1.5:1 on 144 to 146Mhz
Center Frequency 145Mhz

Use the Wavelength formula to compute for the element length in reference to your target operating frequency. Extend the resulting length of the $1/2\lambda$ radiating element by 1cm to accomodate fastening of the coax to feedpoint at the bottom.

MATERIALS

- 3/8" round tube aluminum
- 1" round tube aluminum
- 2pc rubber or plastic stopper
- 2pc self tapping screw
- RG58 Coax
- SO239 or PL259 Connector
- Hose Clamp



Rubber Stopper Cut a hole in the middle to serve as spacer for the radiating element

Tuning:

Reduce the number of turns of RG58 Coax depending on your design frequency. You may also trim the radiating element 0.5cm at a time to tune.

Hose Clamp

Note: For coax with 9 turns feedpoint connection. Center is connected to the 3/8" $1/2\lambda$ aluminum element braid (ground) is connected to 1" $1/4\lambda$ aluminum element

RG8 Coax 9 Turns for 145Mhz

SO239 OR PL259 to feedline