

2 Meter Dipole of PVC a la KK4DIV

Materials

- 2 – sections of wire 19.5” long. Center frequency goal is 146.05 MHz which is 19.20” long. Easier to cut shorter than to make longer.
- Pvc tee 1¼ inch pvc
- Pvc 1¼ cap that will fit into bottom of tee
- 1¼ inch pvc tubing (about 40” long)
- 2 – 1¼ inch pvc end caps
- SO-239 female connector
- 4 – 6/32 machine screws stainless
- 4 – lock washers stainless
- 4 – 6/32 nuts stainless

Procedure

- Step 1. Drill hole in pvc cap so that the SO-239 female connector can fit through the hole.
- Step 2. Modify cap so that SO-239 female connector fits correctly.
- Step 3. Solder one end of each wire to SO-239 female connector.
- Step 4. Hang up dipole and measure SWR cutting the two sides of the dipole equally until the SWR is as close to 1.1 as possible on the desired frequency.
- Step 5. Mechanically attach the SO239 to the pvc cap using screws, lock washers and nuts.
- Step 6. Attach SO-239 pvc cap to the bottom of the tee pulling one wire out of each side of the connector.
- Step 7. Seal cap and SO-239 with caulk.
- Step 8. Cut two equal lengths of pvc tubing a dash longer than the wire on each side of the tee.
- Step 9. Insert tubing into each side of the tee and glue down the wire using caulk inside each end of the tubing.
- Step 10. When caulk is dry, put caps on end to keep dipole weather proof.

Video

<https://www.youtube.com/watch?v=xX9Mbpjo27Q&t=281s>