

# 2M/70cm Vertical Dipole Antenna a la Dave Tadlock KG0ZZ

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## Materials

- ¼" Plexiglass 18" long x 2 ½" wide
- 2 - 1/8" stainless steel rod 36 inches long (consider ss welding rod)
- 2 - #6/32 stainless steel machine screws 1" long
- 2 - #6/32 stainless steel wing nuts
- 2 - #6 stainless steel split washers
- 2 - #6 stainless steel flat washers
- 2 - #6 external tooth stainless steel lock washers
- 4 - 1 ¼" stainless steel flat washers long enough to fit across the element
- 2 - #6 ring connectors 1 each for the end of the coax
- small stainless steel u-bolt to hold coax against the plexiglass

## Procedure

- Step 1. Drill holes in plexiglass. (1) 2 holes at outboard end ½" in from end and 3/8" from top and bottom. (2) Drill 2 holes for mounting clamp half-way up from bottom and center of the plexiglass about 7/8" up. (3) Drill 2 holes for mounting the coax u-bolt so coax is at 90 degree angle.
- Step 2. Bend stainless rod using a bench vise. Set short end to be 7 or 8 inches.
- Step 3. Cut to length. (1) 2 Meter: long side from bottom of bend measure 18 5/8" long; (2) 70 cm: short side from bottom of bend measure 6 ¼" long; (3) gap between two bends should be 3/8". Make 2 complete elements.
- Step 4. Solder the ring conductors on to the coax keeping the leads as short as possible.
- Step 5. Mount elements on to Plexiglas using #6 screws. Mount each element right at the bend. Put screw thru, put on element, put on large washer, put on small washer, put on one of the coax side, add lock washers and wing nut.
- Step 6. Adjust for SWR by moving the elements in or out as necessary. Keep the two halves of the dipole equal.

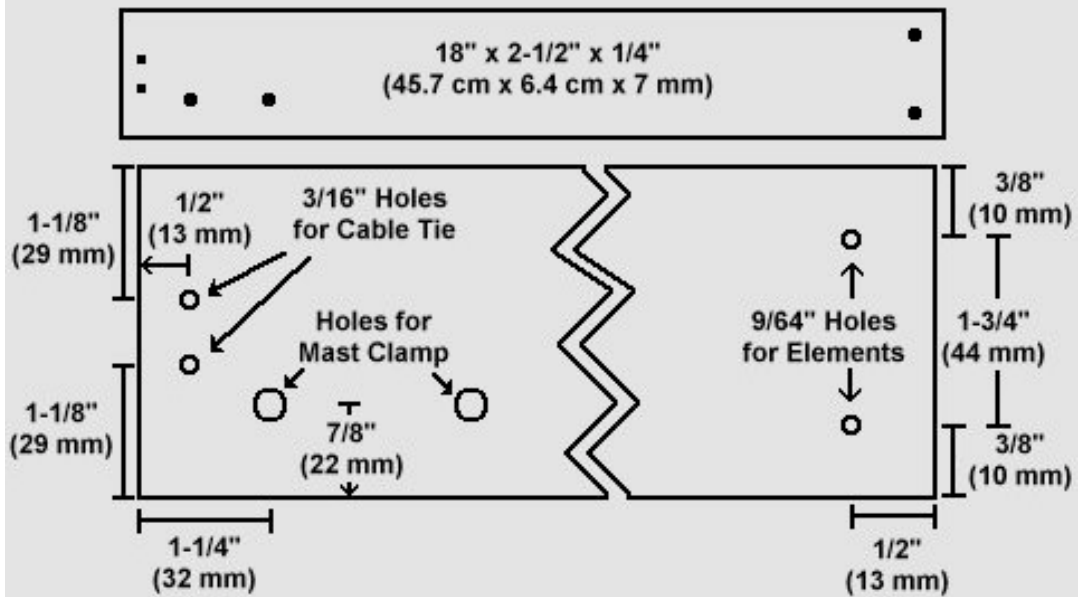
## Video

<https://www.youtube.com/watch?v=RcO5WAiksNI>

## Website

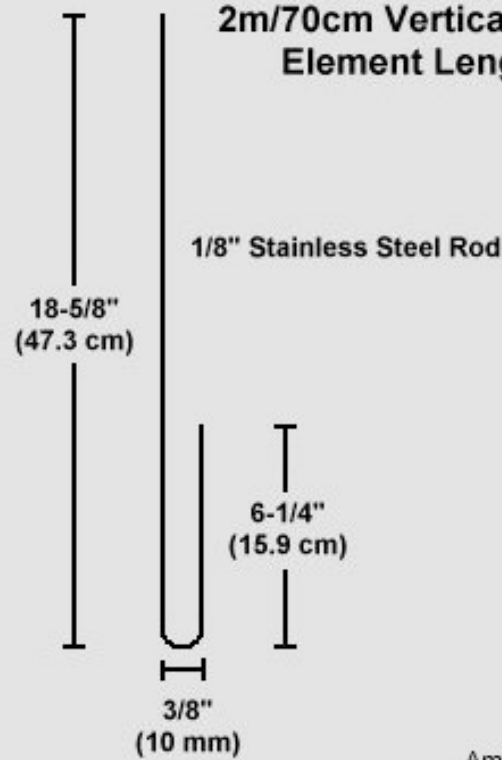
[http://www.amateurradio.bz/2m-70cm\\_vertical\\_dipole\\_antenna.html](http://www.amateurradio.bz/2m-70cm_vertical_dipole_antenna.html)

### 2m/70cm Vertical Dipole Acrylic Plexiglass Boom



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### 2m/70cm Vertical Dipole Element Lengths



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