

GETTING ON 222 MHz?

1. If so, please see the **January 1995 QST** for the article I wrote about modifying a Uniden HR-2510 all mode 10 meter transceiver for use with a 222 MHz transverter. Many other HF rigs can be modified in the same manner to get on this great band with a transverter. Now is always a good time to marry up an older lower value HF rig with a 222 transverter!

2. If you are looking for a modest size inexpensive Yagi-Uda Beam Antenna for 222 - 225 MHz you might want to try out the **VHF Hi Band TV Antenna #30-2475 from Stellar Labs** (I have no relationship with Stellar Labs and I am not selling this antenna):

Cost: \$41 shipped from Amazon in a 36" long box, and even less from Newark Electronics.

Boom Length: 5 feet assembled (breaks down in half via wing nuts to 29" and 32" sections).

Measured Gain (on my Antenna Test Range): 7.67 dBd (9.82 dBi).

Measured 3dB Horizontal Beamwidth: 54 degrees.

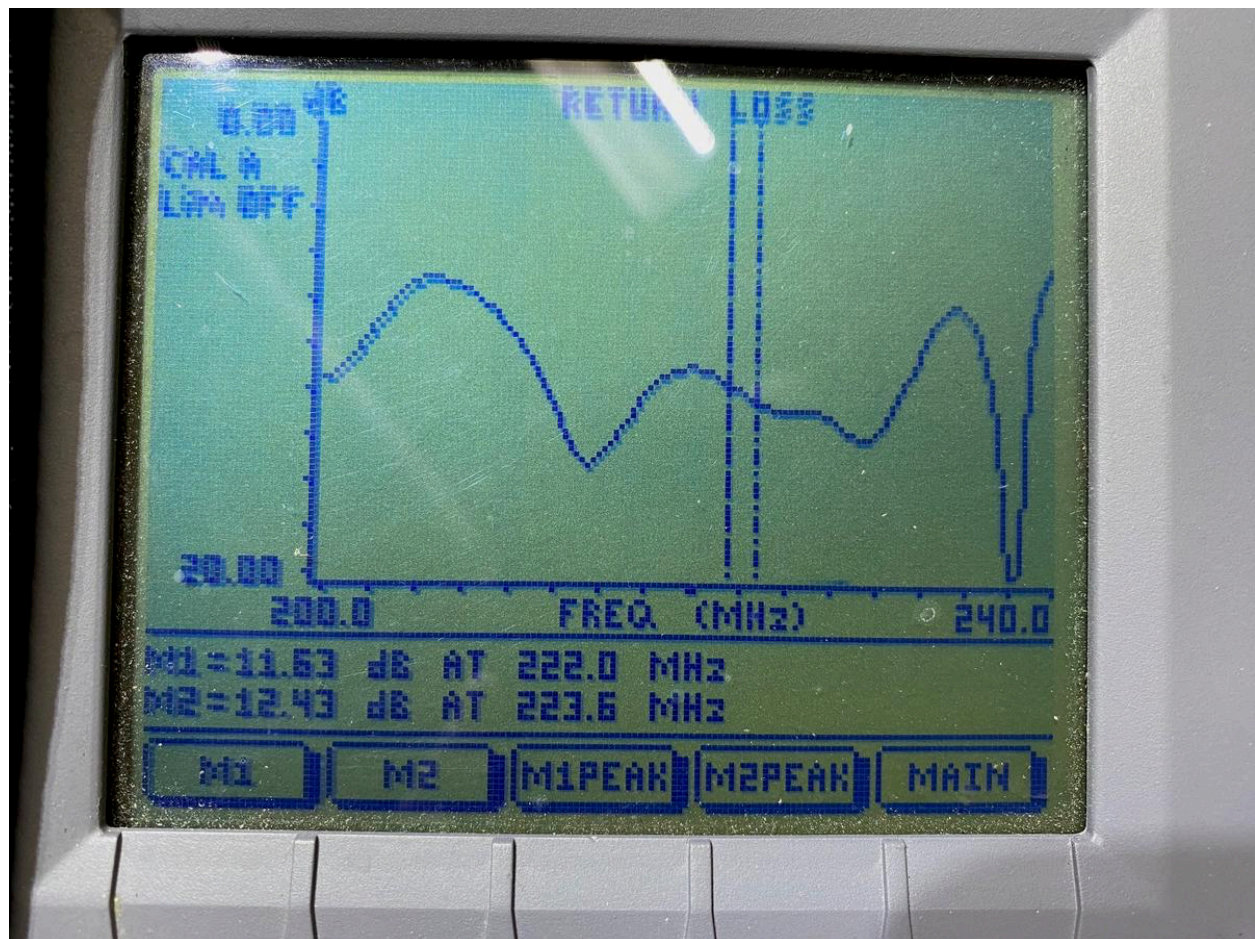
Measured Return Loss at 222.1 MHz: 11.63 dB (the equivalent of 1.7:1 VSWR).

Measured Front-to-Back Ratio: 20.26 dB.

Measured Front-to-Side Ratio: 18.99 dB.

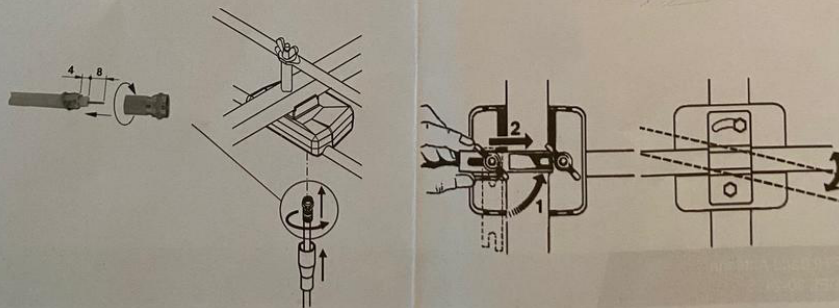
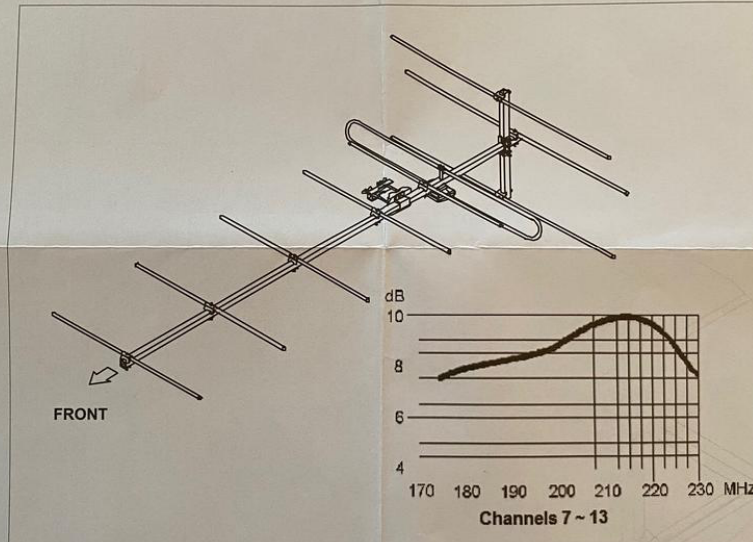
Details: This antenna has a Type F connector feeding a small circuit board inside a black plastic feedpoint box. The driven element is a large diameter/spacing folded dipole for broadband

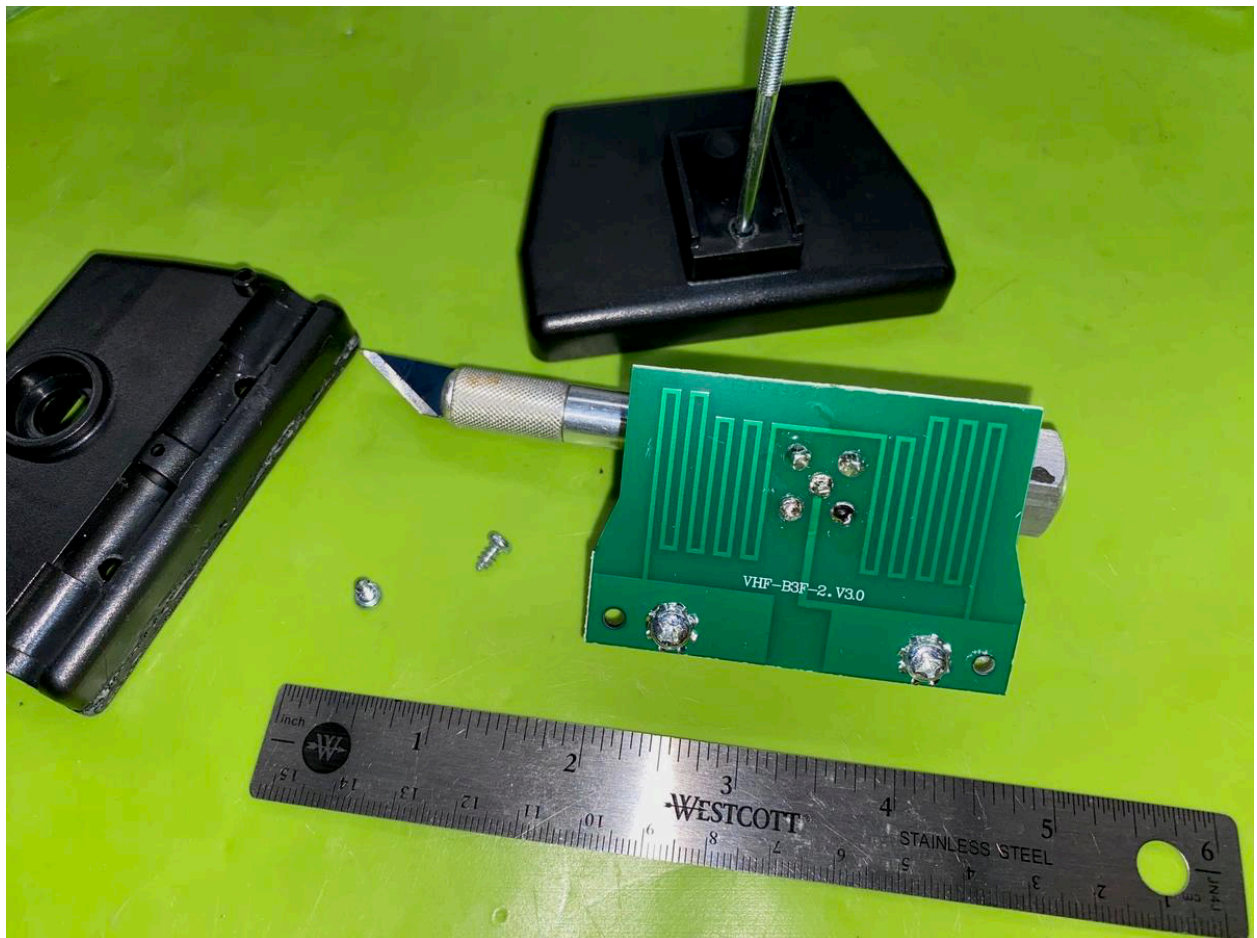
174 - 230 MHz use. The small circuit board has a microstrip hairpin etched on it for matching that looks like it will handle transmitter power kept under 100 Watts. I used a Type F to UHF coaxial adapter at the feedpoint for testing, along with a 20' length of RG-58/U Coax terminated in UHF connectors. One could alternatively use 75 ohm RG-6/U (TV type) coaxial cable with F connectors on each end, and adapt to what connector is necessary at the rig end.



Technical Data:

Frequency	Channel	Imped	No. of elements	Gain	Front-back ratio	Beamwidth Horiz/Vert	Length
174MHz ~ 230MHz	7 ~ 13	75 Ω	8	8 ~ 12dB	10 ~ 15dB	90° / 30°	60.5"







I sincerely hope that easy access to a good performing inexpensive beam antenna helps you get on 222 MHz!

73, Chris WB2VVV