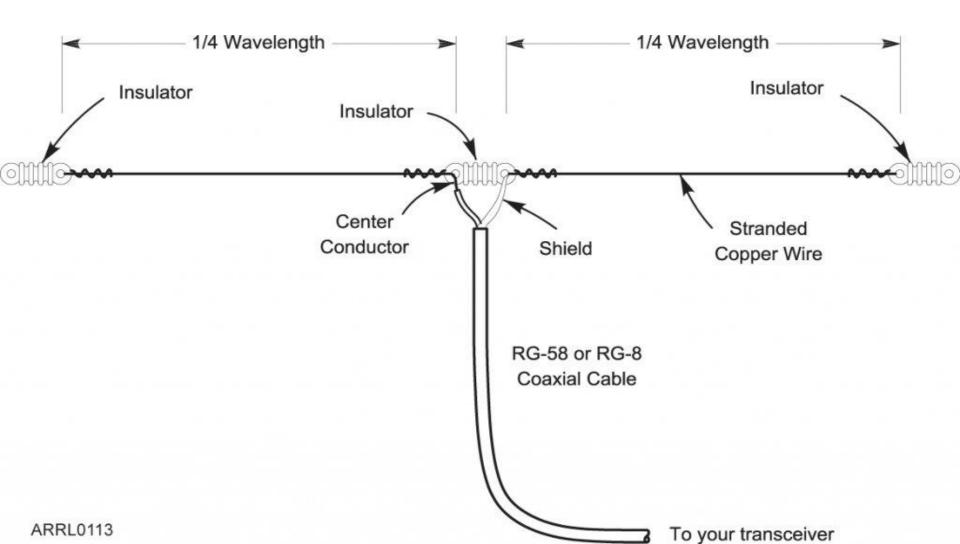
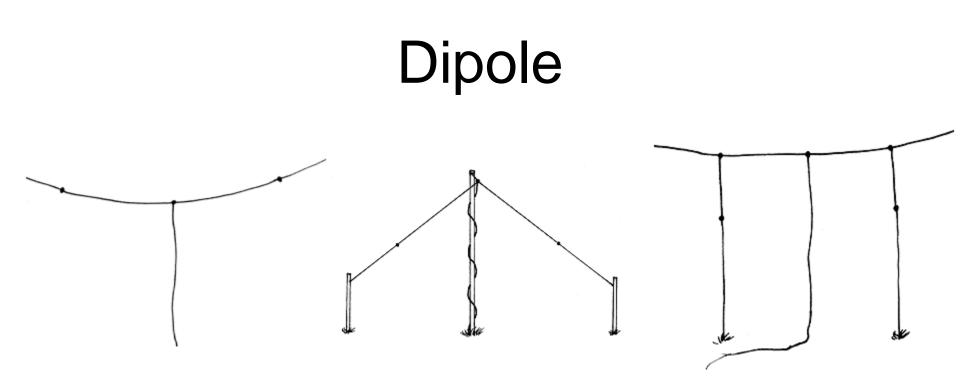
### HF Antennas Especially stealth models for those in an HOA

By Dave Land KD5FX

# Dipole

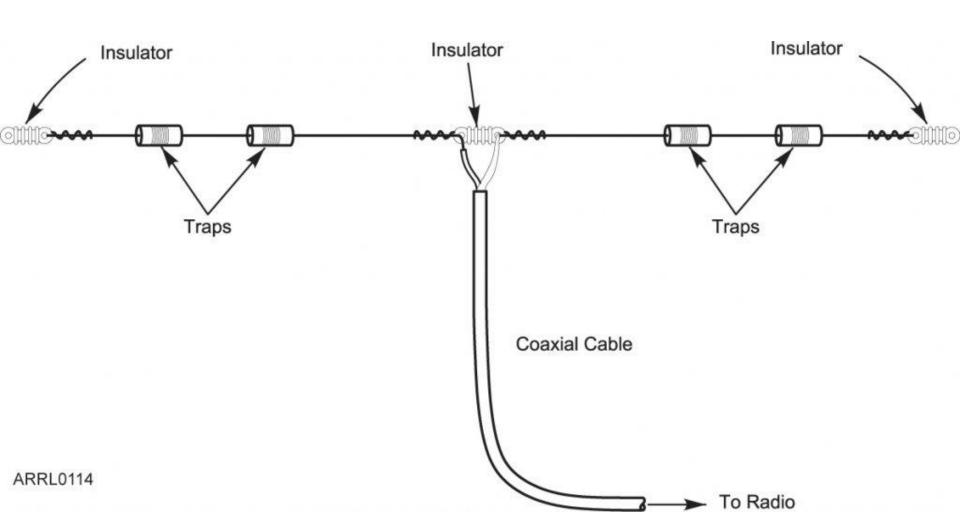




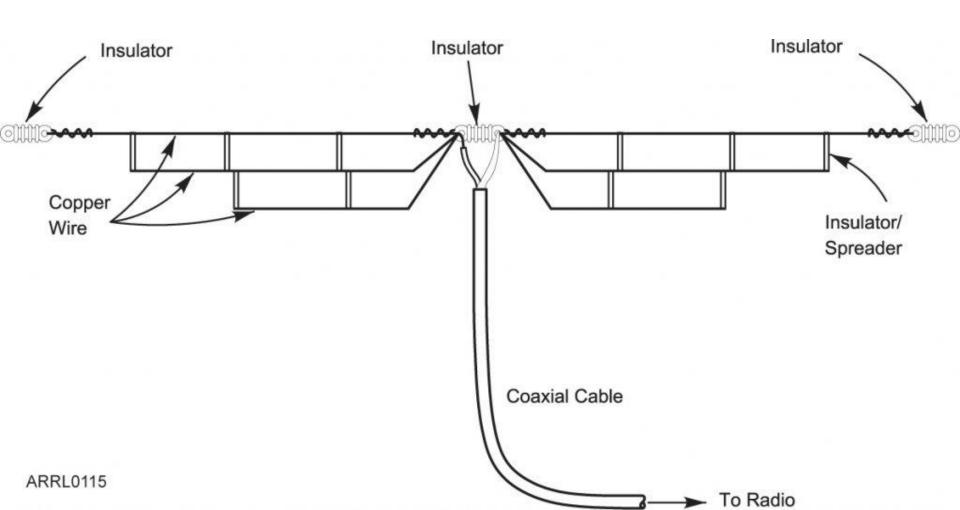
Easy and cheap to build, can be made with small gauge wire For stealth applications (suggest 18ga black wire from Frys) Single band antenna when fed by coax Works good for multi-bands when fed by open wire line and using a tuner

How to build one can be found at: <u>http://www.aa5tb.com/dipole.html</u> And many other places

# **Multi Band Dipoles**



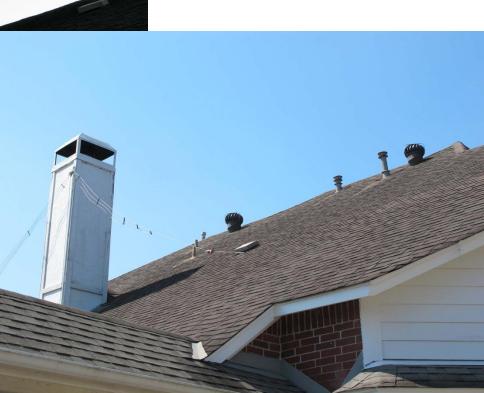
# **Multi Band Dipoles**



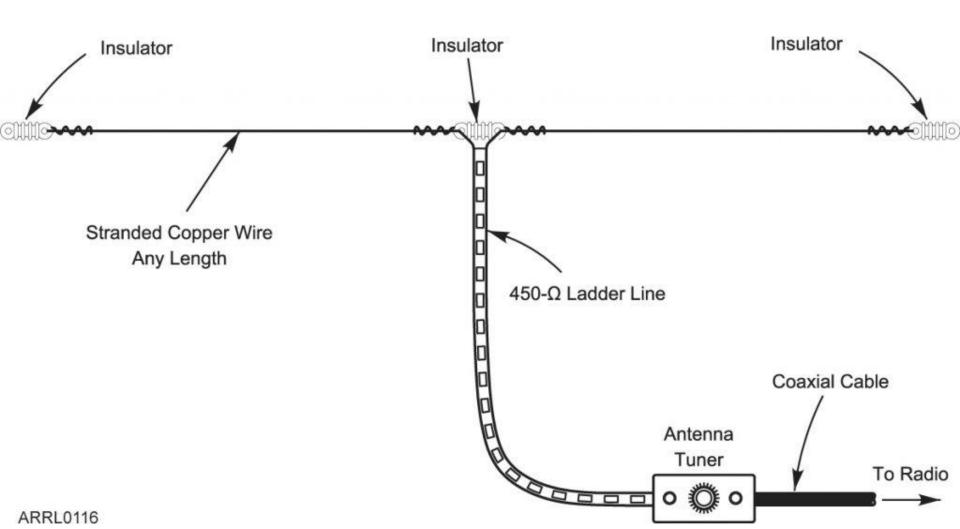
# **Multiband Dipole**

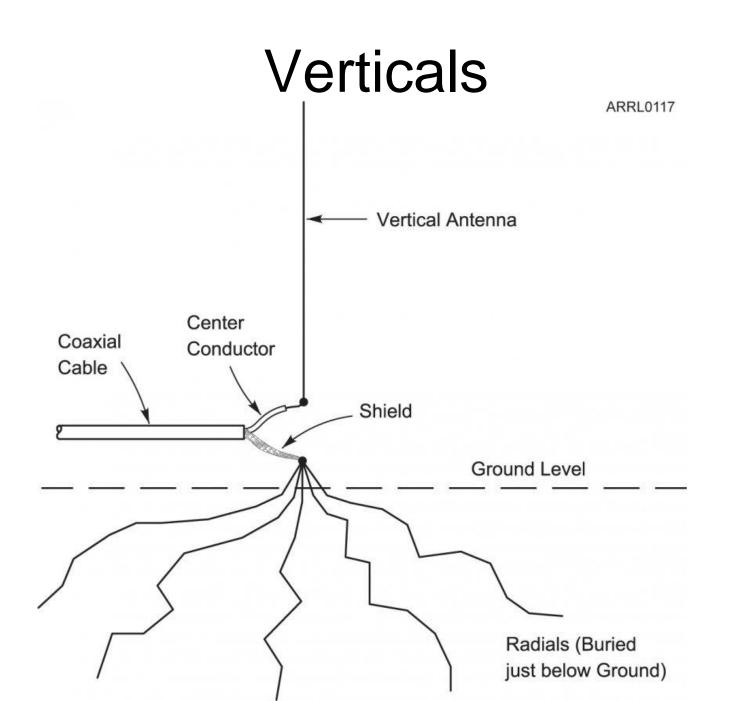


#### No neighbors behind the house



# Random Length Multiband





## Flag Pole Verticals



# Flag Pole Verticals

- 15.5 to 28 ft high
- 20 meters and above or 80 meters and above
- Radials required
- Tuner required
- Remote tuner at the base is best

## Lots of other Verticals



S9v JR, only 18 ft and \$50 Requires radials



MFJ1622 Apartment antenna

Remote Tuners Many antennas work best with one of these, many models available

- SGC SG-231
- Some require
  12 VDC, others
  are powered
  over the coax
- MFJ-926B





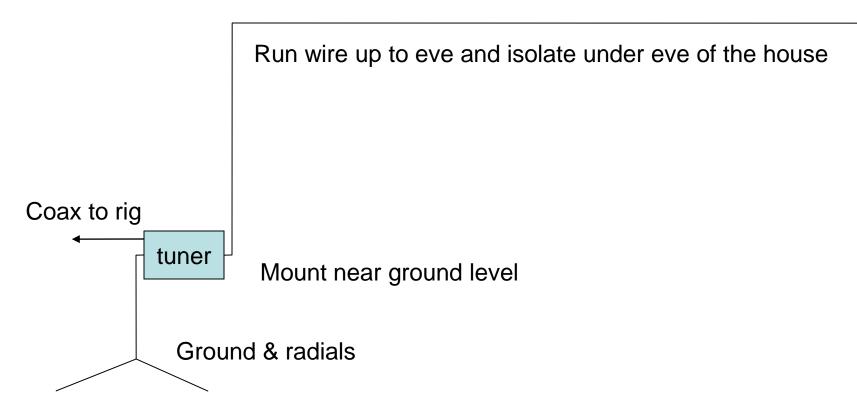
# Rain Gutter



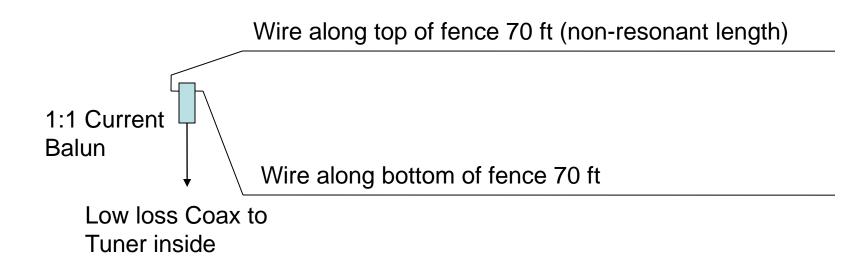
Should be a new gutter May required sections to be bonded together The longer the better Gutter & Downspouts can't be grounded Ground and radials required Remote tuner required

# Inverted L Wire Antenna

- Remote tuner required
- Should not be a resonant length
- 70 or 140 ft recommended



#### Fencetenna



#### Fencetenna





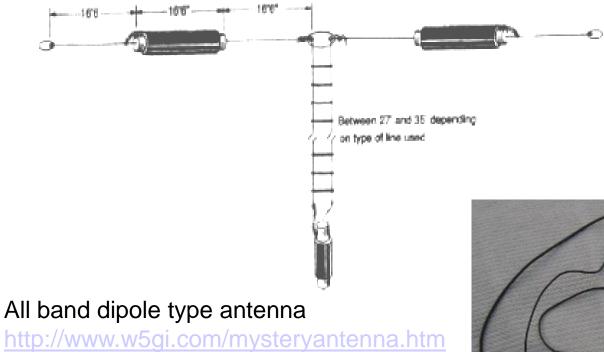
# G5RV



Need to be mounted high enough that the ladder line is vertical for best operation. Not a good multi-band antenna.

# W5GI Mystery Antenna

#### W5GI Mystery Antenna



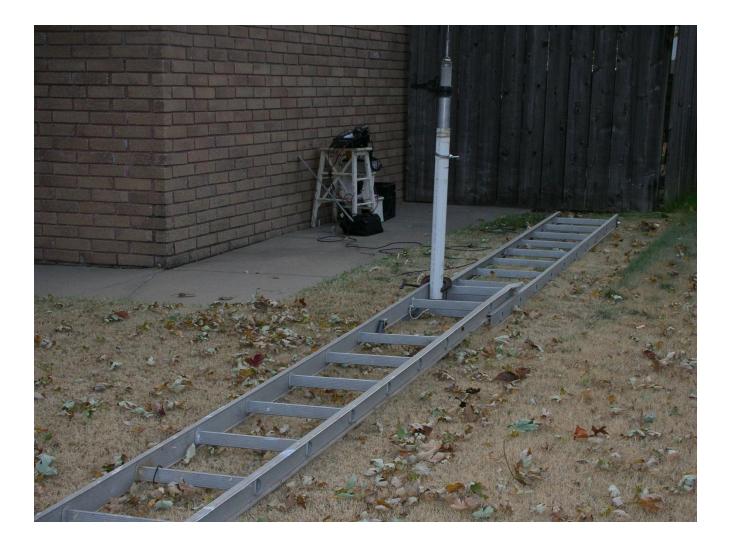


#### Mobile Antennas in the back yard

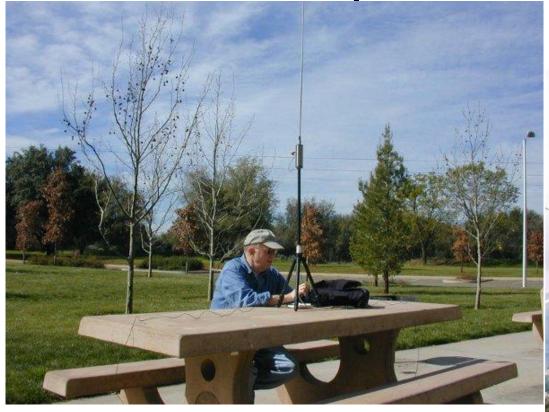




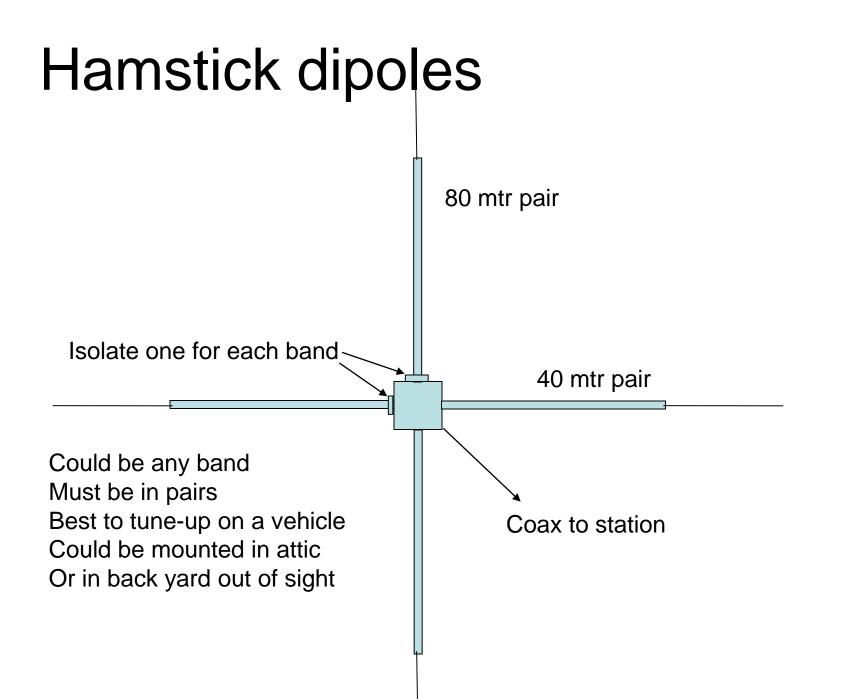
#### Mobile Antennas in the back yard



## **Buddipole Antennas**



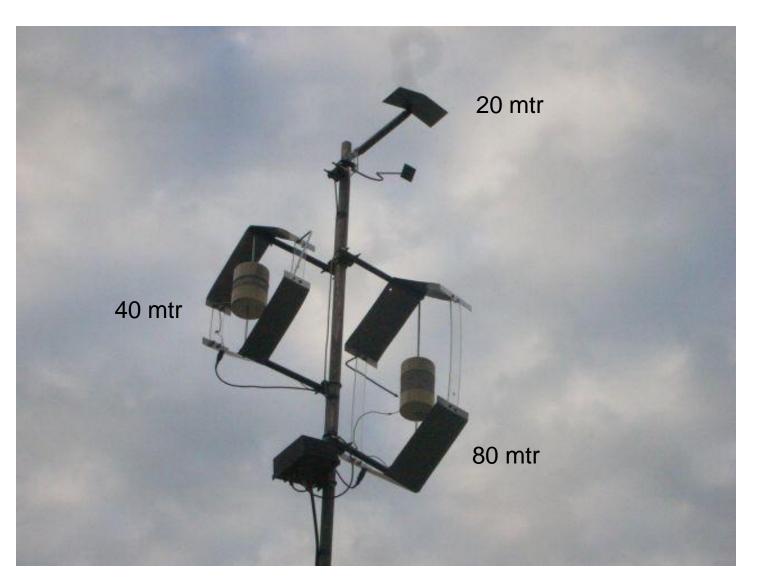




# Hamstick dipoles



# Isotron



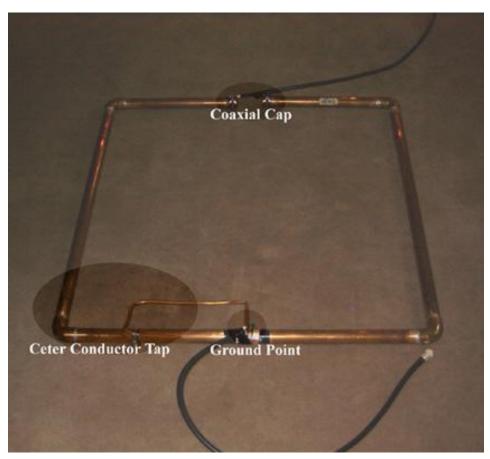
80 & 40 mtr models are very narrow band

20 mtr works well

Omnidirectional

Very small & Can be disguised as TV antenna

# Magnetic Loops



This version is 3.5 ft on each side Can be tuned from 20 to 10 meters (one band at a time) Larger versions will work On 80 or 40 mtrs

How-to website: <a href="http://standpipe.com/w2bri/build.htm">http://standpipe.com/w2bri/build.htm</a>

# MFJ Loops

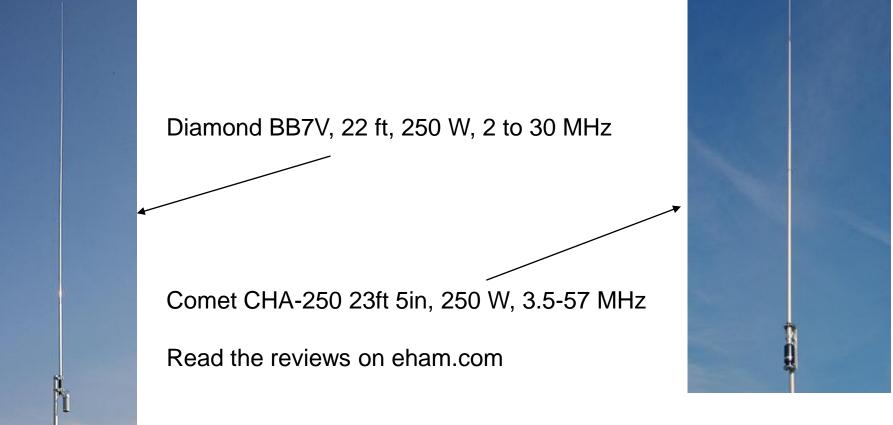


MFJ1780 14-30 MHz Loop

MFJ1786 10-30 MHz Loop

Several other models available

# No radial verticals



# No radial verticals Actually a Vertical Dipole



# If you have trees....

- Hang a dipole or end fed L or random length wire between trees
  - Use small gauge wire (18 ga black wire is ideal)
  - Higher is better
  - Slingshot or bow and arrow to get wire up in the tree

# Attic antennas

- Many types of antenna can be mounted in the attic IF you don't have Radiant Barrier (Tech Shield).
- Need lots of room, keep them away from metal objects like heaters and ducts
- Wire antennas can be run near the peak of the roof inside the attic, bent in odd shapes to match the space available.

## Ventenna for VHF/UHF





# Great Antenna Reference Website

 Reviews of various antennas (and other ham equipment) at www.eham.com

### The Ideal Setup W1AW

