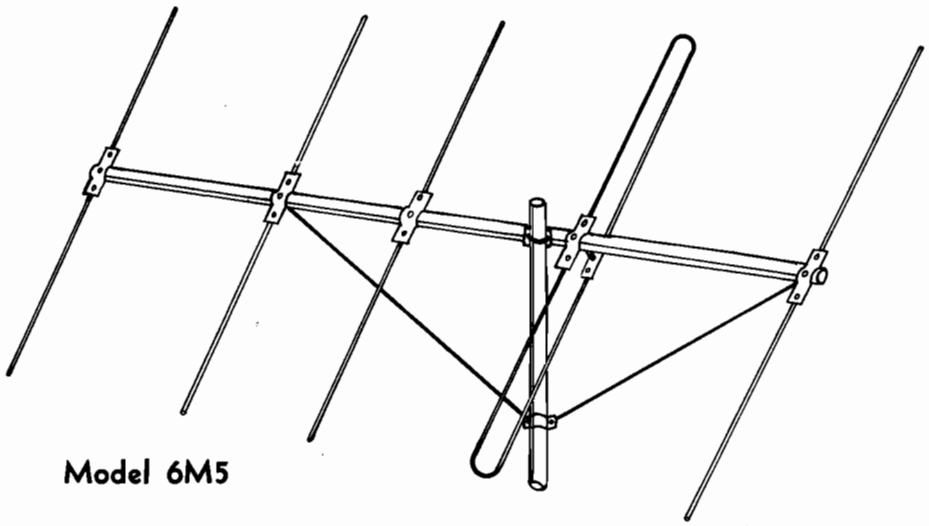
ANTENNAS FOR SIX AND TWO METERS

2 New Six Meter Beams.

Careful engineering and exacting care in manufacture set these antennas at the top for both transmitting and receiving.

Completely assembled for quick installation and easy portability, these antennas are just the thing for the beginner who wishes to get on the air at once or the veteran who appreciates high efficiency. The proven design combines exceptional gain with good bandwidth for those who wish DX with a minimum of trouble.



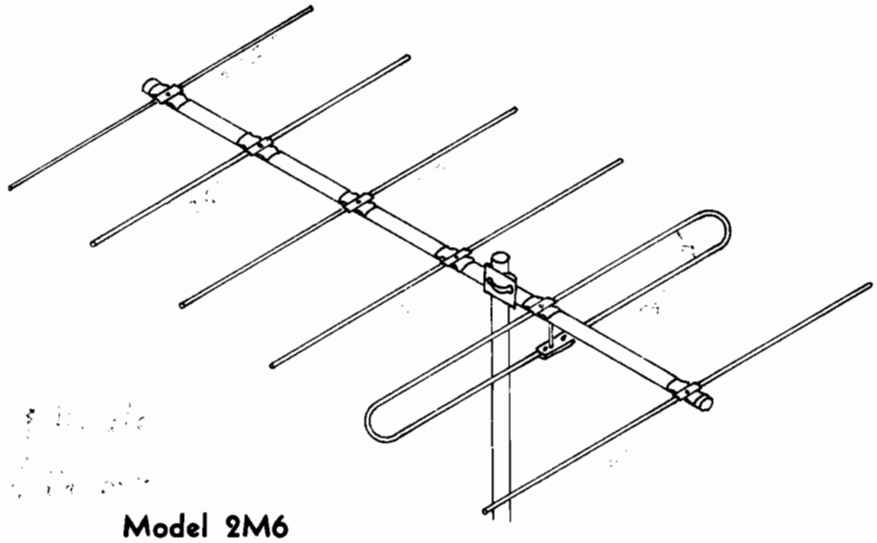
Model 6M5

Model 6M5 is a medium spaced, 5 element Yagi with folded dipole having an effective impedance of 50 ohms. Forward gain of 10 DB and front to back ratio of 30 DB (approx.). 6¾ pounds. 140" overall length. All elements and cross boom are made from the finest grade seamless aluminum tubing.

Model 6M3 same construction as above in 3 elements spaced .2 and .15λ. 70 ohm impedance. 4½ pounds. 79" long.

Medium Spaced 6 Element Beam For 2 Meters

This antenna and our 6M5 are the beams that Hams all over the country are talking about.
Made of seamless aluminum tubing, the 6 elements provide over 10 decibles gain. Pre-assembled for quick set up by simply swinging the elements into place and tightening wing nuts.
Light enough (2 lbs. 2 ozs.) for portable use and rugged enough for years of service.
This extremely light weight makes stacking four or more entirely practical and even large arrays can be turned with ordinary TV rotators.
Folded dipole design has an effective impedance of 50 ohms. Easily fed with standard lines.
Overall length is 65". Can be installed for either horizontal or vertical polarization.



Model 2M6

DISTRIBUTED BY

HI-PAR PRODUCTS CO.

FITCHBURG, MASS.

FEEDING THE MODELS 2M6 AND 6M5 BEAM ANTENNAS

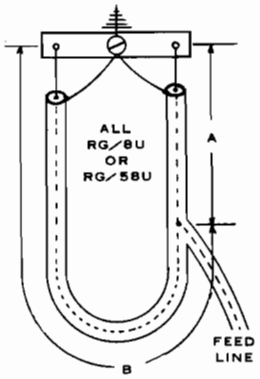


Fig. 1

The arrangement of Fig. 1 is preferred for feeding a single beam with co-ax cable. Readily obtained RG/8U or RG/58U is used for both the feed line and matching section. The entire matching section may be coiled up and fastened to the mast.

DIMENSIONS

2M6	6M5
A - 13"	A - 36"
B - 39"	B - 108"

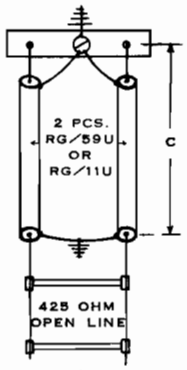


Fig. 2

For minimum attenuation the use of open line for a feeder is especially recommended at VHF frequencies. The popular 425 ohm lines, Fretco, Saxton, etc. are easily matched with a section made from 2 pieces of RG/11U or RG/59U. Fig. 2.

DIMENSIONS

2M6	6M5
C - 13"	C - 36"

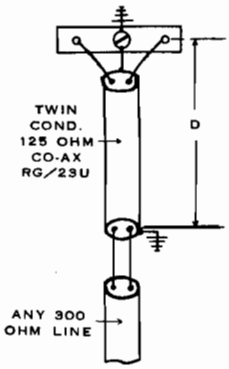


Fig. 3

Fig. 3 shows an easy method of using 300 ohm line as a feeder. The matching Q section is made from a piece of RG/23U cable (125 ohm)

DIMENSIONS

2M6	6M5
D - 13"	D - 36"

This method is recommended for feeding with the new 200 ohm lines such as Federal KT-200 etc. This line of heavy duty construction will easily handle the full legal limit of power and being of solid dielectric construction is easier to handle than the open type transmission lines. Fig. 4.

DIMENSIONS

2M6	6M5
E - 13"	E - 36"

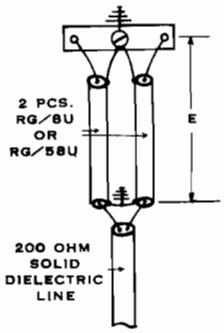


Fig. 4

For added gain and lower angle of radiation the stacking of two antennas is recommended. The arrangement shown is easily fabricated with standard types of co-ax cable. The dimensions shown provide wavelength spacing (electrical) and extremely close impedance matching.

Only the live or center conductor of the co-ax cable is shown for sake of clarity. All outer conductors or shielding must show continuity throughout and be grounded at each end as shown. The balun H may be coiled up and fastened to the mast. Fig. 5.

DIMENSIONS

2M6	6M5
F - 52"	F - 144"
G - 13"	G - 36"
H - 26"	H - 72"

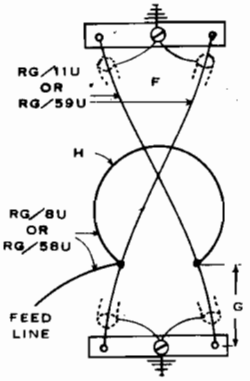


Fig. 5

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