

**ENDFEDZ EF-40**  
**40M END FED DIPOLE**  
\*Patent Pending\*

**PARTS LIST**

PART NO.	QTY	DESCRIPTION
SUB7001	1	40 METER EF MATCHBOX
701	1	40M RADIATOR 65' 6"
1409	1	END INSULATOR
14417	1	#10 SPLIT RING LOCKWASHER
2814	1	#10 STAINLESS HEX NUT
2815	2	#10 STAINLESS FLATWASHER
32767	1	SHIPPING BOX
705	1	EF-40 MANUAL
706	1	TUNING STUB

ENDFEDZ ARE MONO BAND MATCHED ANTENNAS. THEY WILL NOT REQUIRE A TUNER—TAKE THE TIME TO ADJUST THE ANTENNA.

USE ON BANDS OTHER THAN THE DESIGN BAND WILL RESULT IN SIGNIFICANT COAX RADIATION AND MAY RUIN THE MATCHBOX



## ASSEMBLY

1. This antenna is essentially a half wave dipole with one important difference– the feedline is at the end of the antenna. The antenna is suspended at its ends by the two included end insulators– one of which is integral to the matchbox.

2. Remove the tuning stub from the end insulator and set it aside– you will not likely require its use.

3. In order to have the least possible influence on the antenna, insulated lines are recommended for attachment to the insulators. The antenna may be suspended horizontally, vertically or sloping. Portable operation is easily accomplished by suspending the far end from a tree limb and letting the matchbox hang just above the ground.

4. The antenna has been used from hotel rooms by hanging the matchbox end just outside the window and letting the far end hang, or preferably pulling it away from the building with a guy attached to the end insulator.

5. Tuning is best accomplished by using an antenna analyzer attached to the far end of the coaxial cable that will be used with the antenna. Once the initial resonant frequency is established, the antenna may be tuned just like a dipole. Shortening the far end by 6" will raise the resonant frequency approximately 25 KHz. **Tighten the #10 hardware just enough to compress the lockwasher.**

**NOTE: Should you cut the radiator too short during tuning, use the enclosed stub as in Fig 2 and continue tuning by pruning the stub.**

6. Once you are satisfied with the overall length of the radiator, Lace the radiator through all three holes as shown in Fig 1.

7. Fig. 3 illustrates some mounting ideas.



Fig. 1

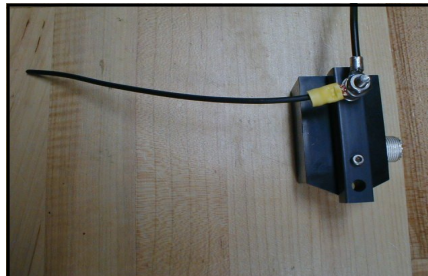
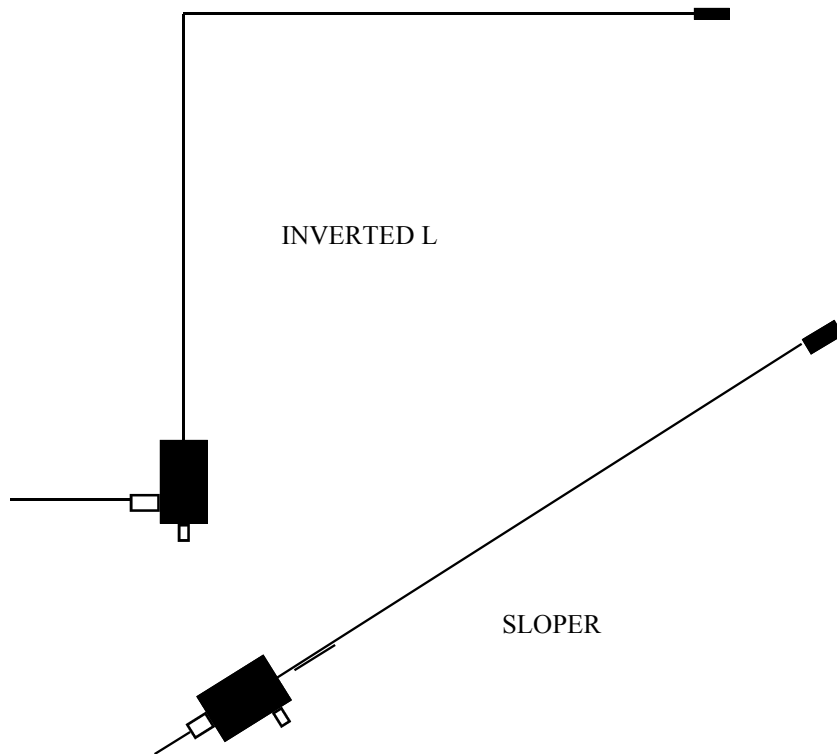
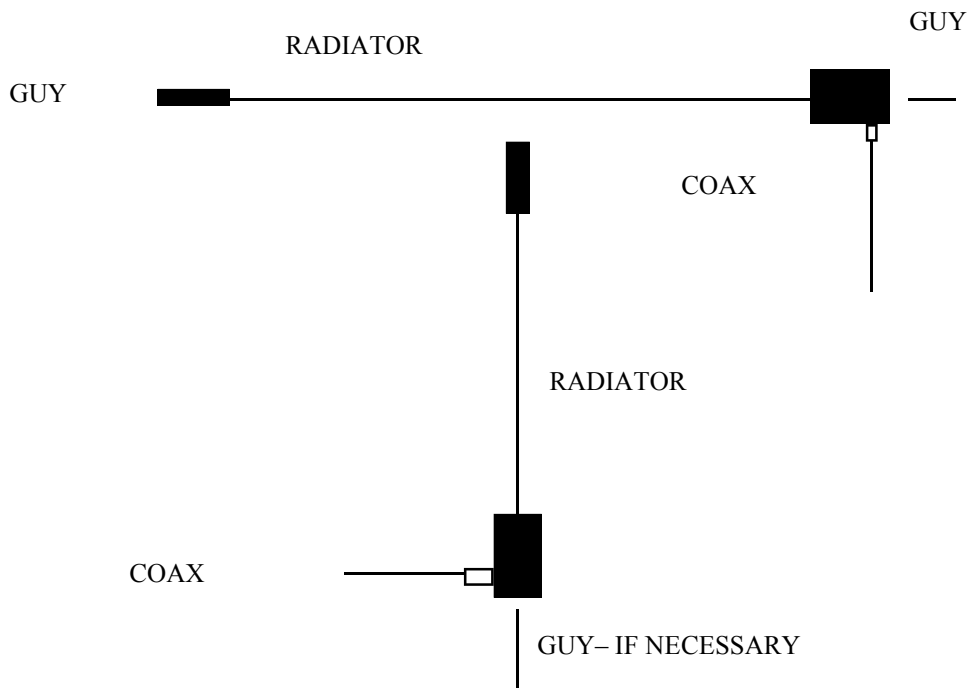
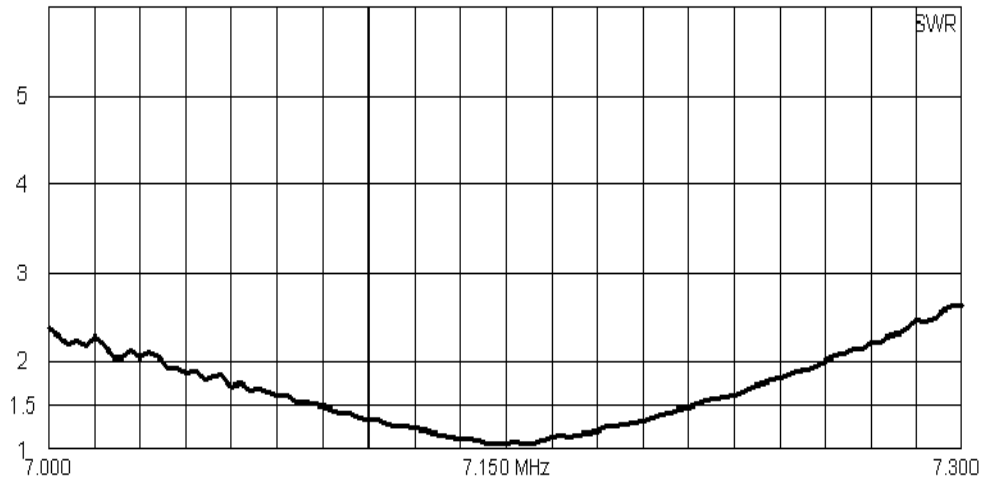


Fig. 2





TYPICAL VSWR PLOT

## SPECIFICATIONS

Polarity:	Depends on mounting configuration
Design Z:	50 Ohms
V.S.W.R. Bandwidth:	225KHz 2:1
Power Handling:	200W
Weight:	0.5 lbs
Length	65' 6"
Hardware:	Stainless Steel
Connector:	Silver/Teflon SO-239
Radiator:	#18 black poly coated stranded copper clad. Wireman #WM532

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