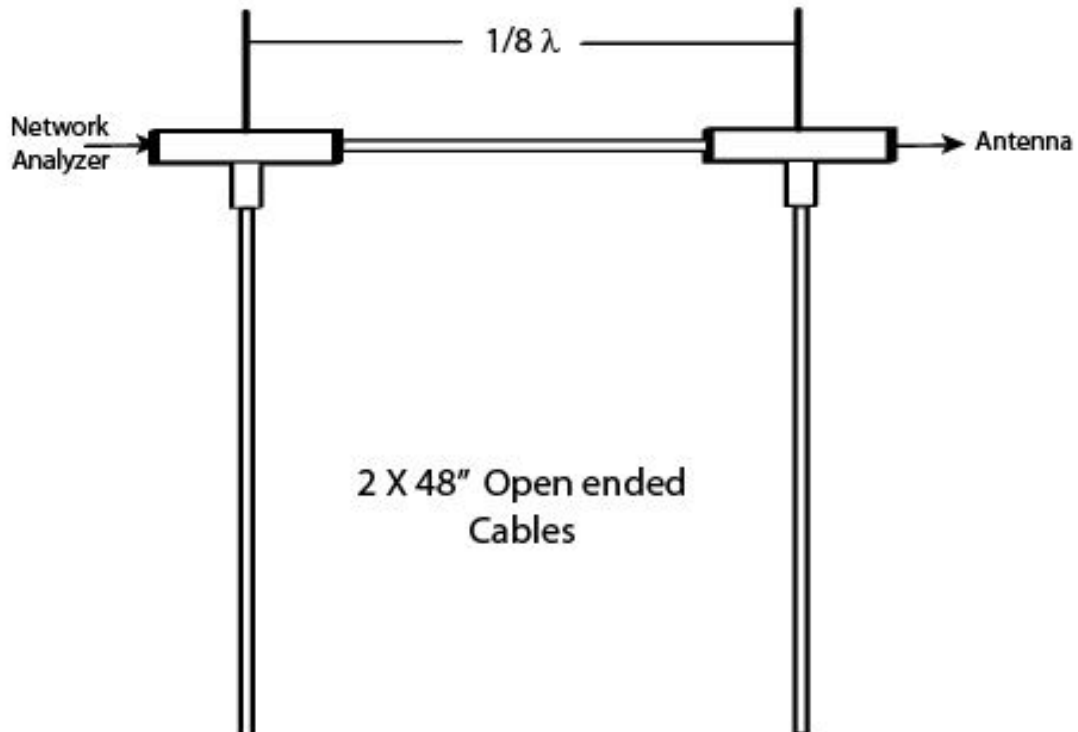


## Double Stub Tuner

1/8th weighted Coax Wave Length @ Frequency



$$\lambda = 11803/\text{Frequency}$$

Example; 98.1 MHz with LMR 400 cable

$$\lambda/8 = 11803/98.1 = 120.316" \times 0.85 = 102.269"/8 = 12.78"$$

13" is close enough!

In the Smith Mode of the Network Analyzer start cutting the stubs alternatively one at a time in  $\approx 1"$  increments. As the match get closer to the center of the chart, increase the sensitivity of the analyzer and make the cuts smaller ( $1/4"$  to  $1/8"$ ).

**Warning**

If you go by the tune point you will have to start over with new cables!