

# 11042A PROBE COAXIAL 'T' CONNECTOR OPERATING NOTE

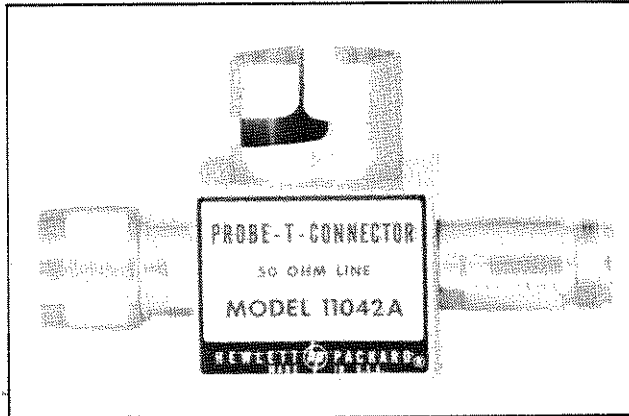


Figure 1. Model 11042A Probe Coaxial "T" Connector

## 1. DESCRIPTION.

2. The Model 11042A Probe Coaxial "T" Connector is an accessory for the Model 410B/C Voltmeter. The Model 11042A is used for measuring voltages between the center conductor and sheath of a 50-ohm transmission line.

## 3. OPERATION.

4. The procedure for connecting the Model 11042A to the transmission line and voltmeter is discussed in the Model 410B/C Operating and Service Manual. Briefly, the procedure is as follows:

- a. The Model 11042A has three connectors: two type N connectors for line connections, and a large socket which accommodates the Model 410B/C AC Probe.

(1) Insert the Model 11042A in the line at the type N connectors (see Figure 1).

(2) Apply signal to the transmission line.

(3) Remove the tip from the Model 410B/C AC Probe, and insert the diode probe in the large socket of the 11042A "T" connector.

**CAUTION**

TURN THE PROBE INTO THE "T" CONNECTOR ONLY UNTIL A SIGNAL IS OBSERVED ON THE 410B/C. TURNING THE PROBE ALL THE WAY TO THE STOPS CAN DAMAGE THE CAPACITOR IN THE 11042A.

- b. The voltage at the point where the Model 11042A is inserted in the line can be read directly on the Model 410B/C AC scale.

## SPECIFICATIONS

FREQUENCY RANGE: 100 Hz to 1000 MHz

STANDING-WAVE RATIO: Maximum at 500 MHz: 1.1  
Maximum at 1000 MHz: 1.2

LINE CONNECTORS: Type N male  
Type N female

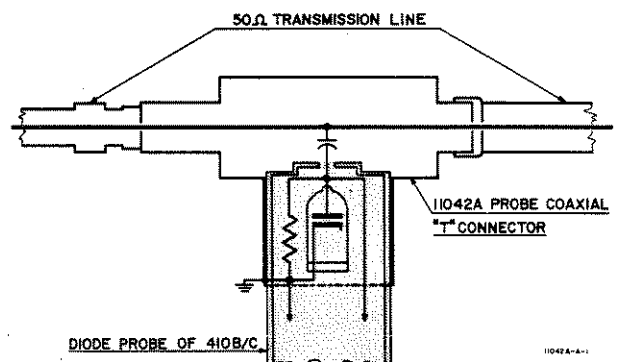


Figure 2. Connection of Model 410B/C AC Probe to Model 11042A "T" Connector, Schematic Presentation.

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