



Amitec RF Training Lab RFT10

Amitec Model RFT10 RF Training Lab is designed to allow you to actually SEE the Electronic *Spectrum* in “real time”. The modulation products and sidebands of AM, FM, SSB, DSB, DSB-SC, VSB waveforms can be studied. The frequency range and high sensitivity is suited to EMI/EMC measurements, both radiated and conducted. A tracking signal source along with directional coupler can be used to measure any two port network. Different training modules are provided for study and experimentation.

Amitec RFT10 Features:

- * 10MHz to 500MHz measurement range
- * Waveform and modulation independent
- * Low cost with high performance
- * Inbuilt frequency counter
- * Wide input range -85dBm to 20Vp-p
- * RF modules for experimentation
- * Tracking signal source for network analysis

Amitec RFT10 Technical Specifications

Frequency	10 MHz – 500 MHz
Center frequency	4 digit LED display
Resolution	100KHz
Input Impedance	50 Ohms (BNC)
Horizontal scan	upto 50MHz/div continuous
Center freq.	Variable control
CRO Output	Linear X out (BNC) Log Y out (BNC)

Tracking signal	60dBuV
Impedance	50 Ohms

Power Supply	100-240V AC; 47-63 Hz
Accessories	Mains Lead, BNC-BNC

Directional coupler 10-500 Mhz

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The RF lab consists of different modules of RF Oscillators, IF amplifiers, RF Mixers and RF Filters etc with following specifications:

1. RFT-01 RF Tuned Amplifier Module:
2. RF Oscillators:
 - a. RFT-02-A Colpitts RF Oscillator Module:
 - b. RFT-02-B Hartley RF Oscillator Module:
 - c. RFT-02-C Clapp RF Oscillator Module:
 - d. RFT-02-D Pierce RF Oscillator Module:
3. RF Crystal Oscillators:
 - a. RFT-03-A Feedback Crystal Oscillator :
 - b. RFT-03-B Colpitts Crystal Oscillator :
 - c. RFT-03-C Butler Crystal oscillator module:
 - d. RFT-03-D Crystal frequency multiplier:
4. IF Amplifiers:
 - a. RFT-04-A FM IF amplifier module:
 - b. RFT-04-B TV VIF amplifier module:
 - c. RFT-04-C Satellite IF amplifier module:
5. RF Mixers:
 - a. RFT-05-A Single ended Diode Mixer:
 - b. RFT-05-B Single Balanced Diode mixer:
 - c. RFT-05-C Double balanced diode mixer:
 - d. RFT-05-D Transistor Mixer Module:
6. RF Filters:
 - a. RFT-06-A1 High Pass Filter Butterworth
 - b. RFT-06-A2 High Pass Filter Chebyshev
 - c. RFT-06-B1 Low Pass Filter Butterworth
 - d. RFT-06-B2 Low Pass Filter Chebyshev
 - e. RFT-06-C1 Band Pass Filter Butterworth
 - f. RFT-06-C2 Band Pass Filter Chebyshev
 - g. RFT-06-D Notch Filter

E-Manual: Installation Video for ease of Learning

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