

FM GENERATION & DETECTION USING PLL DETECTOR

MODEL- COM413NW-1

This trainer has been designed with a view to provide practical and experimental Knowledge of FM Transmitter & Receiver technique on a SINGLE P.C.B.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.

2. Built in IC based power supply.

3. On Board AF Modulating signal generator - Sine wave

Frequency Range : 1KHz to 10KHz Amplitude : 0 to 3 V-pp.

4. On board Amplitude Limiter

5. Modulator Type : Varactor diode and NE 566 VCO Modulator

6. Demodulator Type : Phase lock loop (PLL) detector & Diode Detector.

7. All parts are soldered on PCB of size 12" x 9" with complete circuit diagram screen-printed.

8. Standard Accessories : 1. A Training Manual

2. Connecting Patch cords.

EXPERIMENTS

- 1. To study theory of Frequency Modulation & Demodulation.
- 2. To Modulate FM Signal using Varactor diode modulator
- 3. To Modulate FM Signal using NE 566 Voltage control oscillator
- 4. To calculate modulation index
- 5. To demodulate FM Signal using IC 565 PLL

Sigma Trainers and Kits

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Dealer:-