



AMPLITUDE MODULATION / DEMODULATION TRAINER

MODEL - COM101P

This trainer has been designed with a view to provide practical and experimental knowledge of Amplitude Modulation /Demodulation technique on a SINGLE PCB.



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 15Vpp.
4. On Board RF carrier signal generator.
Frequency Range : 400KHz to 1000KHz.
Amplitude : 0 to 10 pp.
5. On Board Output Audio amplifier with speaker & Volume Control.
6. On Board Band Pass Filter (452-458 KHz).
7. Modulator Type : Balanced modulator.
8. Demodulator Type : Diode detector.
- Product detector
- Square Law demodulator.
9. Standard Accessories : 1. A Training Manual
2. Connecting Patch cords.

EXPERIMENTS

1. To generate AM signal by modulating with Audio signal generator
2. To measure modulation index of A.M. signal
3. To observe the effect of DC signal input on AM output
4. To demodulate AM signal using Diode detector (Envelope detector) and to see the effect of different RC Time constant on demodulated output i.e. Diagonal clipping and negative clipping
5. To generate Voice signal AM modulation and demodulation using mike
6. To demodulate AM signal by Square Law detection
7. To generate Double side band suppressed carrier (DSB-SC) AM signal
8. To demodulate DSB-SC signal using Product detector

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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