



AMPLITUDE MODULATION/ DEMODULATION TRAINER

MODEL - COM101M

This trainer has been designed with a view to provide practical and experimental knowledge of Amplitude Modulation /Demodulation technique on a SINGLE P.C.B of size 12 "x 9".



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 : 300 Hz to 3.4 KHz
Amplitude : 0 to 5 Vpp.
4. On Board RF carrier signal generator.
Frequency Range : 200 KHz to 1 MHz.
Amplitude : 0 to 10 Vpp.
5. Modulator Type : Balanced modulator.
6. Demodulator Type : Envelope Detector (Diode detector).
7. All parts are soldered on single PCB with complete circuit diagram screen-printed.
8. Standard Accessories : 1. A Training Manual.
2. Connecting Patch cords.

EXPERIMENTS

1. To generate AM signal using Double Balanced Modulator.
2. To measure modulation index of AM signal.
3. 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.
4. To see the effect on AM modulated output by varying the amplitude and frequency of modulating signal.

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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