



AMPLITUDE MODULATION/ DEMODULATION TRAINER

MODEL - COM101N

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 10 KHz
Amplitude : 0 to 3 Vpp.
4. On Board RF carrier signal generator.
Frequency Range : 400KHz to 500KHz.
Amplitude : 0 to 10 Vpp.
5. Modulator Type : Balanced modulator.
6. Demodulator Type : Envelope Detector (Diode detector) at 500KHz frequency.
7. All parts are soldered on single 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 generate AM Double Side band Full Carrier (DSB-FC) signal.
2. To calculate modulation index by graphical method
3. To calculate power of AM Wave for different modulating signal.
3. To detect AM signal using Envelope Detector - Practical diode detector
4. To observe effect of change in RC time constant which leads to diagonal and negative clipping

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