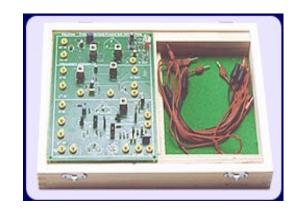
TLA-03: AMPLITUDE DEMODULATION

This module allows the student to understand the functioning and operation of Amplitude Demodulation using to stage Intermediate Frequency Amplifier and Diode Envelop Detector. This module also include the study of AGC, Mixer with dual tuned LC.

The detailed instruction manual explain the complete working of each of the individual section at the circuit level.



Features:

- Frequency Convertor
- 2 stage selective amplifier
- AM-Diode Detector
- Automatic Gain Control

Technical Specifications:

Frequency Converter (Mixer)

- Dual-Gate MOSFET use to mixup RF & Lo frequency. Inputs: Local Oscillator and Signal
- Output Intermediate Frequency: 455 Khz Adjustable
- FI Filter: Dual Tuned LC

1st & 2nd stage IF Amplifier

- Cetral Frequency: 455 Khz Adjustable
- Load Impedance: Variable R-L-C
- Gain: 34 dt
- Impedance Mathing with Transformer & Autotransformer

Diode envelop detector

• Detecting of the positive or negative envelop with variable R-C Filter

Automatic Gain Control

• Output can be controlled in case of maximum input signal

Interconnection: 2mm banana

Power Supply: ± 12V