

This trainer has been designed with a view to provide practical and experimental knowledge of DSB / SSB AM Transmitter technique as practically implemented in Analog Communication system on a signal P.C.B. of size 300x400mm.



Object:

01. Study of carrier frequency generation.
02. Study of DSB / SSB AM Generation & Transmission.
03. Study of Transmitter tuned circuits.

Feature:

The board consists of the following built-in parts:

01. AF Modulating signal generator : Sine wave
Frequency Range : 300 Hz to 3.4 KHz
Amplitude : 0 to 5 Vpp.
 02. RF carrier signal oscillator
Frequency Range : 100 KHz to 1 Mhz.
Amplitude : 0 to 10 Vpp.
 03. Modulators (Two Nos) : Double Balanced Amplitude modulator
 04. Ceramic Band Pass Filter : 452 KHz to 458 KHz.
 05. Band Pass Filter : 1 No.
 06. Switch faults : 8 Nos.
 07. POWER SUPPLY : ± 12 DC and +5V DC IC Regulated power supply.
 08. Test points : 27 Nos.
 09. BFO Oscillator : 455 KHz.
 10. Input Audio amplifier with Volume Control for modulating external signal from Mike or Tape recorder.
 11. Output Amplifier Transmitter : (Gain adjustable) DSB (1MHz), SSB (1.445 MHz) connected to Antenna/cable.
 12. Mains ON/OFF switch, fuse and jewel light.
 13. Power supply requirement 230V AC, 50 Hz.
 14. Dynamic Microphone with 4mm Jack Pin.
- * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design Procedures, Report Suggestions and Book References.

Other Apparatus Required:

- * Cathode Ray Oscilloscope of 20MHz.

Note: Specifications are subject to change.

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