

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 :  $\pm 12$ 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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