



Specification

Audio oscillator (sinewave generator)

- Frequency : 100Hz ~ 10 KHz
- Amplitude : 0 ~ 2 Vpp
- Audio input : Audio preamplifier with microphone input

Voltage controlled oscillator (VCO)

- Output signal : Sine wave
- Frequency range : 400 KHz ~ 500 KHz / 400 KHz ~ 1500 KHz
- Amplitude : 0 ~ 2Vpp
- Output impedance : 50Ω

AM/DSB/SSB/modulator

- Modulation : Amplitude modulation
: Double side band
: Single side band (LSB)
- Carrier input : 1 ~ 1000 KHz
- Modulating input : 0.1 ~ 100KHz
- Carrier null : Adjustable Ceramic filter
- Center frequency : 455 KHz
- Bandwidth : 10 KHz + 3 KHz

Output amplifier

- Gain adjustable connected to cable or antenna
- Antenna : MW Coil

Switch Faults

- 4 switch faults are provided on board to study different effects on circuit

Power supply

GND, +5V, +12V, -12V

Experiment

- Study of double side band AM generator
- Study of single side band AM generator
- Study of adjustment of transmitter tuned circuits
- Voice transmission with DSB/SSB AM transmission

Note: Specifications are subject to change.