



### Specification

#### Audio oscillator(sinewavegenerator)

- 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~ 500KHz / 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.