



Specification

Foster-seely detector

- Operating frequency : Adjustable from 400 KHz ~ 500 KHz
- Input amplitude : 1Vpp

Ratio discriminator detector

- Operating frequency : Adjustable from 400 KHz ~ 500 KHz
- Input amplitude : 1Vpp

Phase lock loop detector (PLL)

- Operating frequency : Adjustable from 400 KHz ~ 500 KHz
- Input amplitude : 1Vpp

Phase detector and FM quadrature detector

- Operating frequency : Adjustable from 400 KHz ~ 500 KHz
- Input amplitude : 1Vpp

Amplitude limiter

- Operating frequency : 455 KHz
- Input amplitude : 0.5 ~ 5 Vpp
- Output limited amplitude : 1.5 Vpp

Low pass filter

- 4th order butter worth filter
- Cut-Off frequency : 3.4 KHz

Audio output

- Audio amplifier gain : 20dB

Switch faults

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

Experiments

- Study of FM demodulators
- Foster seely detector, Ratio detector, Quadrature detector Phase locked loop detector
- Study of phase demodulator
- Voice reception on various demodulation methods

Note: Specifications are subject to change.