



Specification

Carrier generator

 Sub carrier : 1KHz ~ 20KHz and 1KHz ~ 30KHz With adjustable amplitude of 0~2 Vpp

 Pilot carrier : 256 KHz

 Modulation : Amplitude modulation DSBSC

 Multiplexing : 2 Channel frequency division multiplexing

 De-modulation : Amplitude de-modulation DSBSC

• De-multiplexing : 2 Channel frequency division de-multiplexing

Band pass filter

 Pass band : Filter 1 and 3 frequency range 8 ~12 KHz with fc 10 KHz

Filter 2 and 4 frequency range 18 \sim 22 KHz with fc 20 Khz

Low pass filter

· 4 order butter worth filter

Switch faults

• 8 switch faults are provided on board to study different effects on circuits

Power supply

• GND, +5V, +12V, -12V

Experiments

- To study frequency response of band pass filters
- · Study of DSB modulation
- To study the operation of frequency division multiplexing
- Study of DSB demodulation
- To study the operation of frequency division demultiplexing
- To study the effects of out of band signaling
- To study effect of switch faults
- To study voice communication through FDM (optional)

Note: Specifications are subject to change.

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