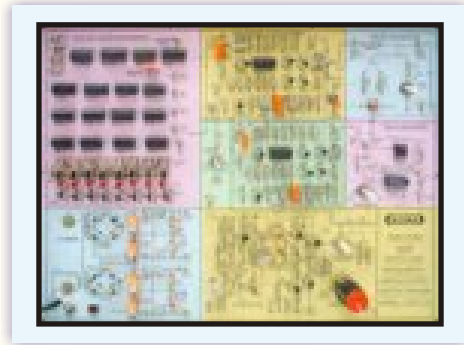




ASK MODULATION DEMODULATION IN PRESENCE OF NOISE

MODEL - COM114Z

This trainer has been designed with a view to provide practical/experimental knowledge of Generation & Reception of ASK in the presence of Noise.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board Modulating Digital Data signal generator to generate any binary input word with Bit clock & Word Clock.
Word Length : 8 Bits.
Word Clock Frequency : 8 KHz to 12 KHz.
Data Format : NRZ
4. Gaussian Noise Generator : 0 to 1Vrms variable amplitude.
5. On Board RF carrier signal generator.
Frequency Range : 100 KHz to 1 MHz.
Amplitude : 0 to 10 Vpp.
6. Modulator Type : Balanced modulator.
7. Demodulator Type : Diode detector.
8. Matched Filter : Integrate and Dump Filter
9. Decision Threshold : Comparator
10. All parts are soldered on single PCB with complete circuit diagram Screen-printed.
11. Standard Accessories :
 1. A Training Manual.
 2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of ASK Modulation & Demodulation.
2. To generate ASK signal and demodulate it in the presence of Noise.
4. To measure signal to Noise ratio of ASK signal using Spectrum analyzer or Selective level meter
5. To observe ASK output for different input binary codes on spectrum analyzer.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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