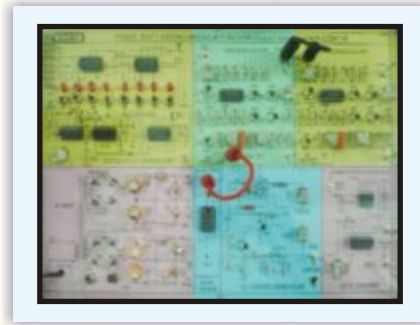




GENERATION & RECEPTION OF PSK WITH NOISE MODEL - COM116Z

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



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. On Board Digital Data generator to generate any binary word of
Word Length : 8 Bits.
Word Clock Frequency : 10 KHz.
Data Format : NRZ, Bipolar NRZ Bits.
3. On Board synchronized RF Carrier : 1.28 Mhz
4. Modulator Type : Using Balanced Modulator.
5. Demodulator Type : Balanced Modulator detectors.
6. Gaussian Noise : 0 to 1V rms variable amplitude.
7. Matched Filter : Integrate and Dump Filter
8. Decision Threshold : Comparator
9. All parts are soldered on hollow tags of 0.1" diameter with height of 0.4" on the front side of single PCB with complete circuit diagram screen printed in multicolor on front side with parts at the same place. The acrylic cover is fitted on PCB to safeguard parts on front side in elegant wooden box having lock and key. The testing points are provided with 1.25" tags to connect CRO probe. True measured colored waveforms are given on panel.
10. Standard Accessories :
 1. A Training Manual
 2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of PSK Modulation & Demodulation.
2. To generate PSK signal.
3. To demodulate PSK signal in the presence of Gaussian Noise.
4. To measure Signal to Noise Ratio of PSK signal using Selective level meter or Spectrum analyser.

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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