

PSK MODULATION/DEMODULATION TRAINER WITH BIT ERROR MEASUREMENT

MODEL - COM116BIT

This trainer has been designed with a view to provide practical/experimental knowledge of PSK Modulation /Demodulation with Bit Error Measurement on a SINGLE PCB.



SPECIFICATIONS

1.	Power supply requirement	:	230V AC, 50 Hz.		
2.	On Board PN sequence Data generator				
	Data Length	:	16 Bits.		
	Bit Clock Frequency	:	30 KHz		
	Data Format	:	Bipolar NRZ.		
	Time Frame/Bit Burst	:	10000 Bits, 1000 Bits and Continues selectable by Switch.		
3.	Gaussian Noise	:	0 to 1V rms variable amplitude.		
4.	Adder to add PN signal and Gaussian Noise.				
5.	Matched Filter	:	Integrate and Dump Filter		
6.	Decision Threshold	:	Comparator and EX-OR circuit.		
7.	Error Count Display	:	Seven Segment 4 digit		
8.	Modulator Type	:	Using Balanced Modulator.		
9.	Demodulator Type	:	Balanced Modulator detectors.		
10.	All parts are soldered on single PCB with Section wise blocks and complete circuit diagram screen-printed.				
11.	Standard Accessories	:	1. A Training Manual		
			2. Connecting Patch cords.		

EXPERIMENTS

- 1. To Observe PSK Modulation and Demodulation Waveforms on CRO.
- 2. To Observe Spectrum of PSK Modulation Signal and determine Essential bandwidth.
- 3. To Measure Bit error rate in presence of channel noise
- 4. To analyze reception quality by cross co-relation characteristics using Matlab Simulink software.

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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