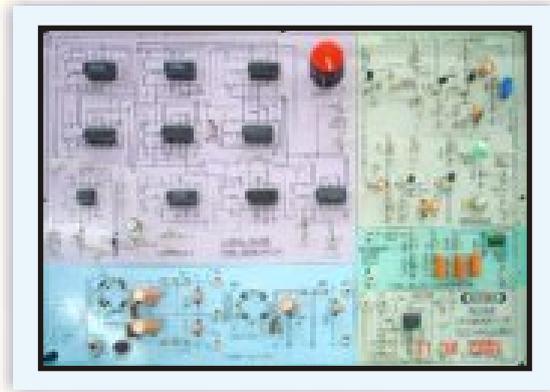




# NOISE GENERATION AND MATCHED FILTER TRAINER

MODEL - COM120

This trainer has been designed with a view to provide practical & experimental knowledge of Noise Generation and Matched Filter on a SINGLE P.C.B.



## SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. Noise Generators :
  1. PRBS Signal Generator
  2. Gaussian Noise Generator.
  3. Noise and Signal Adder.
4. Filters : Matched filter.
5. Code Generator : 8 Bit.
6. Matched Filter : Integrate and dump filter.
7. Comparator : Binary comparator.
8. All are soldered on single pin TAGS on single PCB with complete circuit diagram screen-printed.
9. Standard Accessories :
  1. A Instructional Manual.
  2. Connecting wires

## EXPERIMENTS

1. To study theory of Noise generator and matched filter.
2. To generate PRBS (Pseudo Random Binary Sequence) signal
3. To generate Gaussian noise.
4. To add PRBS signal and Gaussian White Noise.
5. To see the effect of Noise on output of Adder and observe S/N ratio.
6. To detect signal using Matched Filter.

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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