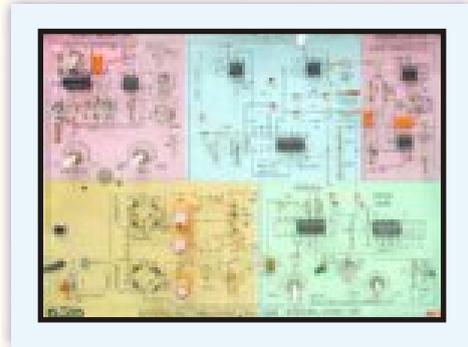




VERIFICATION OF SAMPLING THEOREM NATURAL & FLAT TOP SAMPLING WITH SPECTRUM ANALYSIS

MODEL - COM105L

This trainer has been designed with a view to provide practical & experimental Knowledge of sampling and reconstruction of analog signal using PAM technique.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board AF Modulating signal generator - Sine wave
Frequency Range : 1KHz
Amplitude : 0 to 3 Vpp.
4. On Board Sampling Pulse signal generator.
Frequency Range : 2 KHz to 32 KHz.
Pulse width : Variable.
5. Types of sampling processes : Natural sampling, Flattop sampling
6. Demodulator Sections : Interpolation Filter
7. All parts are soldered on single PCB with multicolor Section wise blocks and complete circuit diagram Screen-printed with true value fo part. The PCB provided with multi-colour 2mm Testing points and acrylic cover for safety in wooden box.
8. Standard Accessories : 1. A Training Manual and Connecting Patch cords.

EXPERIMENTS

1. To study verification of Sampling Theorem
2. To study PAM Techniques (Flat top & Natural sampling)
3. To study effect of variable sampling rate,
4. To study effect of filter cutoff frequency
5. To reconstruct original signal using Interpolation filter
6. To study aliasing effect in frequency domain
7. To observe Spectrum of Sampled signal on 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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