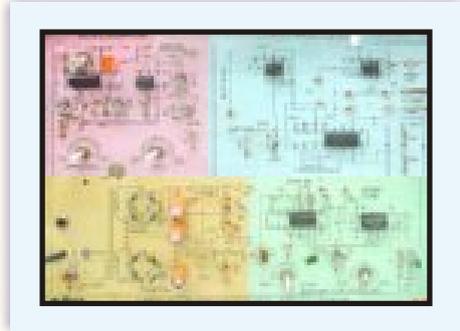




STUDY OF VOICE CODING AND CODEC CHIP

MODEL - COM110P2

This trainer has been designed with a view to provide practical and experimental knowledge of Voice coding and CODEC Chip.



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 : 300Hz to 3.4 KHz
Amplitude : 0 to 5 Vpp.
4. On Board Sampling Pulse signal generator.
Frequency Range : 128KHz
5. Nonuniform Quantization : A - Law and u - Law
6. LED indicators for PCM output bits.
7. Modulator Sections : Based on IC MC145502
8. Demodulator Sections : Based on IC MC145502.
9. All parts are soldered on single PCB with multicolor Section wise blocks and complete circuit diagram Screen-printed with true value of part. The PCB provided with multi-colour 2mm Testing points and acrylic cover for safety in wooden box.
10. Standard Accessories : 1. A Training Manual and Connecting Patch cords.

EXPERIMENTS

1. To study theory of Pulse Code Modulation & Demodulation.
2. To generate and demodulate PCM signal
3. To Study of PCM with non uniform quantization
4. To measure Signal to Noise ratio of PCM with Nonuniform quantization.
5. To observe spectrum of PCM signal on Spectrum analyser.

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