

**BCT-XX**

**BASIC COMMUNICATION TRAINER KIT**

**BCT-06 PAM MODULATION & DEMODULATION KIT**



**Features**

- **Sine Wave Generator**
  - Provides Sine waveform output using IC 2206.
  - Frequency variable from 100 Hz.-1.5 KHz. in three steps
  - Amplitude variable up to Maximum 5V p-p.
- **Carrier Generator**
  - Carrier Generation using IC 555
  - Provides Carrier waveform variable output of 6KHz to 50KHz.
- **On-board Block features**
  - PAM -modulator circuit using IC 4066.
  - PAM -Demodulator using Low Pass Filter method by using IC Lm324.
  - Block Description Screen printed on glassy epoxy PCB.
- **Interconnections.**
  - - All interconnections are made using 2mm banana Patch cords.
  - Test points are provided to analyze signals at various points.
  - All ICs are mounted on IC Sockets.
  - Bare board Tested Glass Epoxy SMOBC PCB is used.
  - In-Built Power Supply of  $\pm 12V/250mA$  with Power ON indication.
  - Attractive Housed in ABS Plastic enclosures.
  - Set of 2mm Patch cords for interconnections.
  - User's Manual with sample experimental programs.

**BCT-07 PWM MODULATION & DEMODULATION KIT**



**Features**

- **Sine Wave Generator**
  - Provides Sine waveform output using IC 2206.
  - Frequency variable from 1KHz.-1.2 KHz.
  - Amplitude variable up to Maximum 10V p-p
- **Sampling Frequency Generator**
  - Sampling Frequency generation using LM565 and 74163
  - Provides Sampling Frequency TTL output of 34 KHz.
- **On-board Block features**
  - PWM -modulator circuit using IC 555
  - PWM -Demodulator Low Pass Filter method by using IC TL084
  - Block Description Screen printed on glassy epoxy PCB.
- **Interconnections**
  - - All interconnections are made using 2mm banana Patch cords.
  - Test points are provided to analyze signals at various points.
  - All ICs are mounted on IC Sockets.
  - Bare board Tested Glass Epoxy SMOBC PCB is used.
  - In-Built Power Supply of  $\pm 12V/250mA$  with Power ON indication.
  - Attractive Housed in ABS Plastic enclosures.
  - Set of 2mm Patch cords for interconnections.
  - User's Manual with sample experimental programs.

