



# DISCRETE COMPONENT TRAINER

MODEL -DCTDM100

This trainer has been designed with a view to perform various Diode application circuits, Transistor Circuits, Voltage regulation circuits, amplifier and oscillator circuits etc and large number of other experimental circuits.



## SPECIFICATIONS

- (1) Semiconductors:
- |                                |   |                              |
|--------------------------------|---|------------------------------|
| 1. Rectifying Diodes (Silicon) | : | 6 Nos.                       |
| 2. Signal Diodes               | : | 2 Nos.                       |
| 3. Zener Diodes                | : | 4 Nos.                       |
| 4. Small signal Transistors    | : | 6 Nos. (Bipolar Transistors) |
| 5. Medium Power Transistors    | : | 4 Nos.                       |
| 6. High Power Transistors      | : | 4 Nos.                       |
| 7. R.F. Transistor             | : | 2 Nos.                       |
| 8. Matched Transistor Pair     | : | 1 Nos.                       |
| 9. FET                         | : | 2 Nos.                       |
| 10. MOSFET                     | : | 1 Nos.                       |
| 11. UJT                        | : | 1 Nos.                       |
| 12. PUT                        | : | 1 Nos.                       |
| 13. Diac                       | : | 1 Nos.                       |
| 14. Triac                      | : | 1 Nos.                       |
| 15. SCR                        | : | 1 Nos.                       |
| 16. Thermistor                 | : | 2 Nos.                       |
- (2) Resistors :-
- |                        |   |                             |
|------------------------|---|-----------------------------|
| 1. 1/2 Watts Resistors | : | 56 Nos. (different values). |
| 2. Potentiometers      | : | 5 Nos.                      |

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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**Dealer:-**

- (3) Capacitors:-
1. Electrolytic Capacitors : 8 Nos. (different values).
  2. Polyester Capacitors : 4 Nos. (different values).
  3. Disk Capacitors : 12 Nos. (different values).
- (4) Coils:-
1. Oscillator Coils (Inductors) : 2 Nos.
  2. A.F. and Power Transformer : 2 Nos.
  3. I.F. Transformer (IFT) : 3 Nos.
  4. Loud speaker : 1 Nos.
  5. Relay (12V) : 1 Nos.
  6. Electronic load : 1 Nos.
- (5) Built-in Power Supplies
1. + 5 V, 250mA.
  2. +15 V, 250mA.
  3. - 15 V, 2 50mA.
  4. 9-0-9 V AC, 250mA
- (6) Built-in Meters:
1. Digital Multi meters : 3 and ½ digits- 2 No.
- (7) Built-in signal source:
1. Function Power Generator : 20Hz to 20 KHz in 3 range - 0 to 10 Vpp.
  2. Pulse Generator : 10KHz to 1MHz in 2 range - TTL - Variable Pulse width
  3. Audio Generator : 300Hz to 3.4 KHz - 0 to 5 Vpp.
- (8) Standard Accessories : A Instructional Manual.  
Connecting wires in assorted color.