



An ISO 9001:2015 Co.

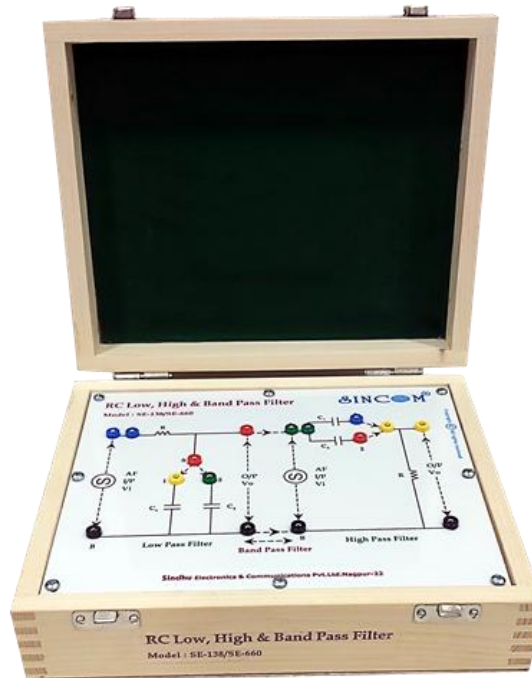
SINC  [®]

Sindhu ELECTRONICS & COMMUNICATIONS PVT. LTD.

Electronics Educational Trainer Kits

RC Low, High and Band Pass Filter Circuit

Model : SE-138



SINC SE-138 RC Low , High and Band Pass Filter Circuit is a All-In-One useful trainer to study the operation, characteristics and frequency response of RC Low Pass, High Pass and Band Pass filter with facility to vary cutt-off frequency.

Features

- ❖ Separate modules of RC LPF and HPF
- ❖ RC Network as LPF , HPF and BPF
- ❖ RC components bank
- ❖ Facility to vary cutt-off frequency
- ❖ User friendly Design
- ❖ Very Easy for Operation
- ❖ Multi color Circuit Diagram is printed on the front panel of the white acrylic board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Facility to connect External Function Generator Oscilloscope and Digital Meters.
- ❖ Interconnections by 2mm high quality banana sockets and pins
- ❖ Maximum Test points to explore all the corners of experiment
- ❖ 1 Year Warranty

Technical Specifications

- | | |
|------------------------|------------------------------|
| ▪ Filter type | : Passive LPF, HPF and BPF |
| ▪ RC Networks | : 2 for Each filter |
| ▪ Resistors Used | : 1K Ω , 10K Ω |
| ▪ Capacitor Used | : 0.1uf, 10uf |
| ▪ Cutt-Off frequencies | : Multiple selection |

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|-------------------------|--|
| ▪ Input Signal | : Sine and Square @ 50Hz-300KHz, 10Vpp |
| ▪ Output Signal | : LPF, HPF & BPF output |
| ▪ Weight | : 2.0 kg (approx) |
| ▪ Dimensions (mm) | : L 220 x W 270 x H 110 |
| ▪ Interconnections | : 2mm Banana sockets |
| ▪ Operating Temperature | : 0-50 ⁰ C, 80% RH |

Learning Scope

- To Study frequency response of RC Low Pass filter w.r.t. change in I/P Signal frequency. To determine higher cut-off frequency & Bandwidth.
- To Study frequency response of RC High Pass filter w.r.t. change in I/P Signal frequency. To determine lower cut-off frequency & Bandwidth.
- To Study frequency response of RC Band Pass filter w.r.t. change in I/P Signal frequency. To determine lower and higher cut-off frequency & Bandwidth.
- To observe the change in O/P w.r.t change in square & sine wave I/P in Pass & block band.

Other Instruments Required : Oscilloscope and Function Generator 1MHz.

Accessories Included : Set of Patch Cord and Details Instruction Manual.