



An ISO 9001:2015 Co.

RC Differentiator (High Pass Filter) Circuit

Model : SE-135

SINC COM SE-135 RC Differentiator (High Pass Filter) Circuit is useful trainer to study the operation, characteristics and frequency response of RC Differentiator/ High Pass filter circuit with facility to vary cut-off frequency.

Features

- ❖ RC Network as HPF
- ❖ RC components bank
- ❖ Facility to select multiple 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 HPF
▪ RC Networks	: 3
▪ Resistors Used	: 1K Ω , 5.6K Ω , 10K Ω
▪ Capacitor Used	: 0.1uf, 1uf, 10uf
▪ Cutt-Off frequencies	: Multiple (9)
▪ Input Signal	: Sine and Square @ 50Hz-200KHz, 10Vpp
▪ Output Signal	: High Pass response & Differentiator output
▪ Weight	: 2.0 kg (approx)
▪ Dimensions (mm)	: L 220 x W 270 x H 110
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-50 $^{\circ}$ C, 80% RH

Learning Scope

- To Study RC Differentiator circuit. To observe & Note the O/P for the different applied Inputs.
- To Study response of RC high pass filter w.r.t. change in I/P Signal frequency. To determine cut-off frequency.
- 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.