



An ISO 9001:2015 Co.

RC Integrator (Low Pass Filter) Circuit

Model : SE-136

SINCOM SE-136 RC Integrator (Low Pass Filter) Circuit is useful trainer to study the operation, characteristics and frequency response of RC Integrator/Low Pass filter circuit with facility to vary cutt-off frequency.

Features

- ❖ RC Network as LPF
- ❖ 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

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| ▪ Filter type | : Passive LPF |
| ▪ 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 | : Low Pass response & Integrator 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 Integrator circuit. To observe & Note the O/P for the different applied I/Ps.
- To Study response of RC Low 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.