

Negative Feedback in CE Amplifier

Model : SD-127





An ISO 9001:2015 Co.

▪ Transistor Type and Package	: Bi-Polar Silicon-NPN, TO-92 Package
▪ Transistor Used	: BC548
▪ Transistor Configuration	: CE mode
▪ Biasing Method	: Self Bias
▪ BJT Junction Voltage	: 0.7V
▪ Max. Collector Emitter Voltage	: 12 VDC
▪ Emitter Base Voltage V_{BE}	: 5V
▪ Base Resistors	: Two No.
▪ Input Output Coupling Capacitors	: Two No. Electrolytic type
▪ Gain Control Emitter Resistor Bank	: Two- MFR 1KΩ and 2.2KΩ, ±5% with and without Capacitor
▪ Collector Load	: 10KΩ Fixed Resistive Load
▪ Output	: With and Without Negative Feedback Output
▪ Input Signal Type	: Sine wave
▪ Max. Input Frequency Range	: 60Hz-500KHz approx.
▪ Output Frequency Response	: 60Hz-100KHz approx.
▪ Weight	: 2.0 kg (approx)
▪ Dimensions (mm)	: L 220 x W 270 x H 110
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-50°C, 80% RH

Learning Scope

- To study Negative Feedback Single Stage CE Amplifier .
- To observe and Note the change in O/P voltage w.r.t. change in I/P frequency for the selected emitter Resistor RE. To Plot the Frequency response curve.
- To Observe & Note the effect of feedback components (emitter resistor RE) on the gain, Bandwidth of an amplifier.

Other Instruments Required : Oscilloscope, Function Generator 1MHz.

Accessories Included : Set of Patch Cord and Details Instruction Manual