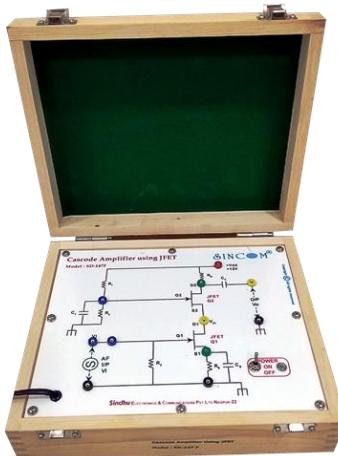


Cascode Amplifier using JFET

Model : SD-148



SINCOM SD-148 Cascode Amplifier using JFET is very useful simply designed trainer to study the concept, operation, Frequency response and determine the Bandwidth, over all Voltage gain and other parameters of a Cascode Amplifier using JFET in a simple experimental way.

Features

- ❖ Two N Channel JFET with Self base biasing operates as a Cascode amplifier circuit
- ❖ N-Channel JFET of TO-72 package on board
- ❖ Resistive Drain Load
- ❖ Wide Bandwidth AF Amplifier
- ❖ Input and Output Coupling Capacitors
- ❖ In-Built Fixed regulated DC Power Supply
- ❖ User friendly Design
- ❖ Very Easy for Operation
- ❖ Multi color Circuit Diagram is printed on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Facility to connect external Function Generator and Oscilloscope
- ❖ Interconnections by 2mm high quality banana sockets and pins
- ❖ Maximum Test points to explore all the corners of experiment
- ❖ 1 Year Warranty

Technical Specifications

▪ AC Mains Power Supply	: 230V $\pm 10\%$, 50Hz
▪ DC Power Supply	: IC Regulated Fixed +12V/500mA
▪ Amplifier Type	: Cascode Amplifier
▪ Transistor Type and Package	: N-Channel JFET, TO-72 Package
▪ JFET Used	: Two BFW10
▪ JFET Configuration	: JFET Cascode
▪ Biasing Method	: Self Bias
▪ Max. Drain Source Voltage	: 12 VDC



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▪ Gate Resistors	: Two No.
▪ Source Resistor	: One No. with bypass capacitor
▪ Input Output Coupling Capacitors	: Two No. Electrolytic type
▪ Drain Load	: 10KΩ Fixed Resistive Load
▪ Input Signal Type	: Sine wave
▪ Max. Input Frequency Range	: 60Hz-500KHz approx.
▪ Output Frequency Response	: 100Hz-50KHz 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 the Cascode Amplifier using JFET .
- To Observe & Note the change in O/P w.r.t. change in I/P Frequency.
- To Plot the frequency response & To Determine Bandwidth amplifier

Other Instruments Required : Oscilloscope, Function Generator 1MHz.

Accessories Included : Set of Patch Cord and Details Instruction Manual