

IC 723 as Positive Low and High Voltage Regulator with Digital Meters

Model : SB-115DM



SINCOM SB-115DM IC723 as Positive Low and High Voltage Regulator with Digital meters is a Two-In-One remarkable self contained simply designed trainer very useful to study the operation, line and load regulation characteristics of IC723 as Positive Low and High Voltage Regulator with variable load in a simple experimental way. The Trainer is equipped with on board Digital voltmeter & Digital Ammeter.

Features

- ❖ User friendly Design
- ❖ Two separate modules of IC723 as a Positive Low and High Voltage Regulator circuits
- ❖ IC723 wired with Resistive and Capacitive network as a linear Positive Low and High Voltage Regulator
- ❖ Adjustable Low Regulated DC Output voltage between 2V to 7V
- ❖ Adjustable High Regulated DC Output voltage between 7V to 27V
- ❖ Output Voltage Control by two separate Potentiometers
- ❖ High operating Temperature range
- ❖ Variable Resistive Load
- ❖ Facility to vary wide range of applied DC Input voltage
- ❖ Facility to vary regulated Output DC Voltage
- ❖ In-Built Variable regulated DC Power Supply
- ❖ Very Easy for Operation
- ❖ Multi color Circuit Diagram is screen printed on the front of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ On Board 3^{1/2} Digit Digital Voltmeter and Ammeter
- ❖ Interconnections by 2mm high quality banana sockets and pins
- ❖ Maximum Test points to explore all the corners of experiment
- ❖ 1 Year Warranty



An ISO 9001:2015 Co.

Technical Specifications

▪ AC Mains Power Supply	: 230V \pm 10%, 50Hz
▪ DC Power Supply	: IC Regulated Variable 0V to +40V/500mA
▪ Unregulated Low DC Input Vin	: 0 to +12V DC Input for Low Voltage
▪ Unregulated High DC Input Vin	: 0 to +40V DC Input for High Voltage
▪ Regulated DC Low Output Vo	: Adjustable low voltage between 2V to 7V
▪ Regulated DC High Output Vo	: Adjustable high voltage between 7V to 27V
▪ Output Voltage Control	: By two separate 10K Ω Potentiometer
▪ IC Used	: IC LM723 Monolithic Programmable IC Voltage regulator
▪ Total ICs provided	: Two IC LM723
▪ IC Package	: 14 Pin DIP Plastic Package
▪ IC Output Current	: 150mA Max without external pass transistor
▪ Load Resistor	: Two Separate 10K Ω Variable Resistive Load
▪ Regulation type	: Line and Load Regulation
▪ Total Digital Meters	: 03 (2 Voltmeter and 1 Ammeter)
▪ Digital Voltmeter	: 0-20V (2 No.)
▪ Digital Ammeter	: 0-20mA (1No.)
▪ Meter Display	: Red Color, 3 ^{1/2} Digit , LED Display
▪ Weight	: 3.0 kg (approx)
▪ Dimensions (mm)	: L 245 x W 320 x H 115
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-50 ⁰ C, 80% RH

Learning Scope

- To Study IC 723 as (adjustable) Positive Low voltage regulator. Compare theoretical & Practical values.
- To Study IC 723 as (adjustable) Positive High voltage regulator. Compare theoretical & Practical values.
- To Study Change in O/P Voltage w.r.t. change in I/P Voltage with Load RL constant (Line Regulation)
- To Study Change in O/P Voltage w.r.t change in Load RL with I/P voltage constant (Load Regulation)

Other Instruments Required : Nil

Accessories Included : Set of Patch Cord and Details Instruction Manual