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Product Name :

Capacitance Substitution Box

Product Code :

SLE/PHY/145



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Description :

Capacitance Substitution Box (Product Code: SLE/PHY/145) is a switch-selected capacitor box used to insert a known capacitance into a circuit for RC timing, filter and AC reactance experiments in physics and electronics labs. A rotary selector switch chooses preferred values from 100 pF to 1 µF, each within ±5% and rated at 63 V, through two 4 mm safety sockets on a75 x 100 x 40 mm ABS case. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Case	Robust ABS, 75 x 100 x 40 mm
Selector	Rotary selector switch
Connections	Two 4 mm safety sockets
Capacitance values	100 pF, 220 pF, 470 pF, 2.2 nF, 4.7 nF, 10 nF, 22 nF, 47 nF, 100 nF, 220 nF, 470 nF, 1 µF
Range	Preferred values from 100 pF to 1 µF
Accuracy	±5% (all values)
Voltage rating	63 V (all values)
Product code	SLE/PHY/145
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is a Capacitance Substitution Box Used For?

Instead of soldering individual capacitors, students turn the selector to swap values and see at once how capacitance changes the time constant of an RC circuit, the cut-off point of a simple filter, or the reactance of a capacitor in an AC circuit driven by a signal generator and viewed on an oscilloscope. That flexibility makes it a useful part of any AC DC circuits experiment kit at college level.

Because the values run from picofarads to one microfarad, the box suits signal-frequency work; slow charge-and-discharge demonstrations read on a meter usually use larger capacitors. Keep the applied voltage below the 63 V rating, switch the supply off before changing value, and connect with shrouded 4 mm leads.

What to Specify When Ordering

- The number of capacitance substitution boxes needed.
- Whether a resistance substitution box should be quoted for RC work.
- Whether a signal generator and oscilloscope are also required.
- Connecting leads with 4 mm plugs for the safety sockets.

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