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Product Name :

Capacitance Selector

Product Code :

SLE/EAM/36



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Description :

The **Capacitance Selector** (Product Code: SLE/EAM/36) puts twelve non-electrolytic capacitors, from 220pF up to 1.0µF, behind a single rotary switch on an acrylic base. Instead of hunting for loose components, a student turns the knob to change the capacitance in a circuit and immediately sees the effect on timing, filtering or reactance. The unit is produced by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, for electronics and physicsbenches and fits naturally into an AC DC circuits experiment kit for senior school and collegeclasses.

Specifications

Parameter	Detail
Number of capacitors	Twelve
Capacitor type	Non-electrolytic
Picofarad values	220pF, 470pF, 1000pF
Nanofarad values	2.2nF, 4.7nF, 10nF, 22nF, 47nF
Microfarad values	0.1µF, 0.22µF, 0.47µF, 1.0µF
Selection	Rotary switch
Base	Acrylic

Typical Use

The spread of values — roughly doubling at each step from picofarads up to a microfarad — suits experiments where students change capacitance systematically and watch a waveform respond. Paired with a resistor and a signal generator, the selector lets a class measure RC time constants on an oscilloscope, see how a low-pass or high-pass filter’s cut-off shifts, or show capacitive reactance falling as frequency rises. Because the capacitors are non-electrolytic, they are not polarity-sensitive, so they can sit in AC circuits without the orientation worries that come with electrolytic parts.

Teachers find the single-knob design useful for demonstrations too: the same circuit can be shown at several capacitance values in a few seconds. Return the switch to the lowest value between groups, keep the acrylic base clean with a dry cloth, and check the voltage used in your circuit with us before connecting to higher-voltage sources.

Manufacturer

ScienceLab is the brand name used by Jain Scientific Equipments Private Limited, a manufacturer of teaching laboratory apparatus located in Ambala, Haryana. The company makes this selector for schools and colleges and supplies it across India and to international markets. Our company profile describes the business in more detail.

Related Electricity and Magnetism Equipment

Usefu

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