Email : sales@scilabexport.com
Phone: +91-7082934803

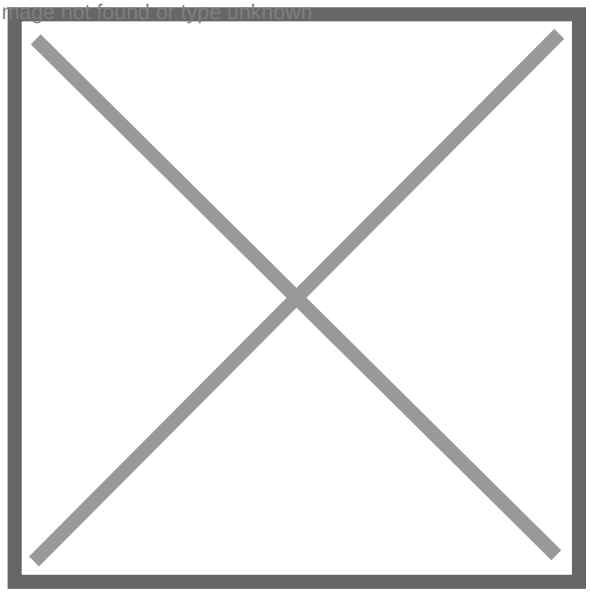
Product Name :

Capacitor

Product Code :

SCL-451/122

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Description :

Capacitor (Product Code: SCL-451/122) is an electronic component that stores electric charge, used in charging and discharging, filtering and timing experiments in physics and electronics labs. It is listed with a 250 V voltage rating, well above the supplies used in typical low-voltage student circuits, together with a 105 °C temperature rating and a tolerance of 20%. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as a regular part of any electricity experiment kit for school labs.

Specifications

Parameter	Detail
Voltage	250 V
Temperature rating	105 °C
Tolerance	20%
Product code	SCL-451/122
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Capacitor Used For?

Capacitors store charge and release it again, which puts them at the centre of RC time-constant experiments: students charge a capacitor through a resistor and record how its voltage rises, then discharge it and watch the voltage fall. The same component smooths the output of rectifier circuits, blocks DC while passing AC signals, and sets the timing interval in timer IC circuits.

Observe polarity if the capacitor has marked positive and negative leads, and never exceed the 250 V rating. A capacitor can hold charge after the supply is removed, so discharge it through a resistor before handling it. The 20% tolerance means the measured capacitance may differ from the marked value, which is worth discussing when students compare calculated and measured time constants.

What to Specify When Ordering

- Capacitance value(s) required, as these are not stated on this page.
- Working voltage of your circuit, to confirm the 250 V rating suits it.
- Quantity per experiment set or bench.
- Whether a Capacitor Study Kit or charging and discharging apparatus is also needed.

Supplier

Jain Scientific Equipments Private Limited, trading as ScienceLab, supplies the Capacitor from Ambala, Haryana, to schools, colleges, laboratories and dealers in India and international markets. Physics departments setting up RC and rectifier experiments can combine capacitors with resistors, meters and power supplies in one enquiry. The ScienceLab company profile explains more about the company.

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