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Product Name :

LED White

Product Code :

SLE/PHY/199



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Description :

LED White (Product Code: SLE/PHY/199) is a standard 5mm white light-emitting diode used as a low-power light source in student circuits and LED characteristics experiments in physics and electronics labs. It is packed 100 to a pack, and its listed data — forward voltage values of 3.3and 3.8, a luminous intensity of 10 mcd and an IF value of 30 — help students plan current-limiting resistors and compare white LEDs with other colours. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Type	Standard LED (light-emitting diode)
Size	5mm
Colour	White
Pack size	100 LEDs
Forward current (IF)	30 (listed value; forward-current ratings for 5mm LEDs are normally stated in mA)
Forward voltage (VF)	3.3 V and 3.8 V (two values listed)
Colour coordinates	x: 0.31, y: 0.30 (listed under wavelength in the source data; white LEDs are described by colour coordinates rather than one wavelength)
Luminous intensity	10 mcd
Other colours	The same standard 5mm LED is available in a range of colours
Product code	SLE/PHY/199
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the White LED Used For?

In an LED characteristics experiment kit, students plot current against voltage for the white LED and see that it only begins to conduct and glow once the forward voltage is reached — a noticeably higher turn-on voltage than a red LED, which opens a discussion of photon energy and colour. The same LEDs serve as the light source for light-dependent resistor circuits, as indicators on circuit boards, and in simple optics and science-fair projects.

Always wire a series resistor with each LED: subtract the forward voltage from the supply voltage and divide by the chosen current, keeping that current below the IF rating. Check polarity before switching on — on standard LEDs the longer lead is normally the anode — because a reversed LED will not light.

What to Specify When Ordering

- The colour: white (this item) or another colour from the standard 5mm range
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