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Product Name :

Microwave Accessories Hollow Plano-convex Lens

Product Code :

SLE/PHY/247



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Description :

Microwave Accessories Hollow Plano-convex Lens (Product Code: SLE/PHY/247) is a large liquid-filled lens used to focus microwaves and demonstrate the refraction of electromagnetic waves in school and college physics laboratories. It consists of a thin moulded plastic dome, 260 mm in diameter, bonded to a 3 mm thick plastic plate 315 mm square, held upright on a channel base and filled with paraffin oil when in use. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Lens type	Hollow plano-convex
Curved face	Thin moulded plastic dome, 260 mm diameter
Flat face	Plastic plate, 3 mm thick, 315 mm square
Construction	Dome bonded to the plate
Mounting	In a vertical plane by a channel base
Filling in use	Paraffin oil
Application	Microwave experiments
Product code	SLE/PHY/247
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Microwave Hollow Plano-convex Lens Used For?

Placed between a microwave transmitter and receiver, the oil-filled lens converges the beam in the same way a glass lens converges light, so students can find a focus by moving the receiver until the signal peaks. It shows a class that microwaves and visible light obey the same laws of refraction, and it pairs naturally with the other microwave accessories for reflection, polarisation and prism work.

Microwaves have a far longer wavelength than light, so microwave lenses are built much larger than glass ones; the 260 mm dome also makes the idea of a focal point easy to show to a whole class. Fill the lens with paraffin oil on a level bench, make sure the channel base is stable before switching the transmitter on, and drain and wipe the lens before storing it. As optics lab equipment for the electromagnetic-spectrum topic, it helps bridge ray optics and wave physics.

What to Specify When Ordering

- Whether paraffin oil for filling should be included in the quotation, as the listing does not say it is supplied.
- Whether your laboratory already has a microwave transmitter and receiver, or needs them
- of

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