

A black cylindrical device, possibly a sensor or camera module, is shown. A green fiber optic cable is connected to its side, with the cable extending outwards. The device has a circular opening on its front face.

☐ - 1 ☒ + €1.775^{,00}

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! Prices shown are exclusive of VAT/local taxes

Note: This item requires accessories for use | [Learn More](#)

DANGER
LASER RADIATION
EYE HAZARD

CLASS II LASER
SEE USER MANUAL FOR DETAILS

General	
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Diode

IIIb

Physical & Mechanical Properties					
Physical Properties: - Melting Point: ~180°C - Density: ~1.2 g/cm³ - Solubility: Soluble in organic solvents like THF, DMSO. - Stability: Stable under ambient conditions.	Mechanical Properties: - Tensile Strength: ~10 MPa - Elongation at Break: ~5% - Modulus: ~1 GPa				
	Thermal Properties: - Glass Transition Temperature (T_g): ~-100°C - Decomposition Temperature: ~300°C				
	Electrical Properties: - Volume Resistance: ~10^{12} Ω·cm - Surface Resistance: ~10^9 Ω				
	Optical Properties: - Refractive Index: ~1.5 - Transparency: Transparent in thin films.				
	Biocompatibility: Cytotoxicity: Non-toxic at concentrations up to 1 mg/mL.				
	Environmental Stability: - UV Radiation: Degradable under UV light. - Oxygen Exposure: Stable in air.				
	Processing Methods: - Injection Molding: Suitable for large-scale production. - Extrusion: Can be used for fiber spinning.				

Length of Fiber (m):

Optical Properties	
0.12	Numerical Aperture NA:
Fiber-Coupled	Spatial Mode:
3	Fiber Diameter (µm):
445.00 ±10	Wavelength (nm):
Blue	Color:
Electrical	
50	Output Power (mW):
Hardware & Interface Connectivity	
5.0	Operating Voltage (V):
Power Supply: Power Supply Required and Sold Separately. USA: #73-818 Europe: #73-818 Japan: #13-640 Korea: #33-770 China: #73-818	
FC/PC	Connector:
Environmental & Durability Factors	
+15 to +30	Operating Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 233:

Product Details

- Single Mode Fiber with FC/PC Connector
- 1 to 100mW Output Power and 405 to 1550nm Wavelength Options
- Integrated Driver for Easy Operation

Pigtailed Laser Diode Modules feature an integrated 1m long, single mode fiber with an FC/PC connector. These laser diodes also feature an integrated driver for plug and play operation, only requiring a 5V external power supply ([#73-818](#)). Pigtailed Laser Diode Modules are available with VIS and NIR wavelengths ranging from 405 to 1550nm, with output powers ranging from 1 to 100mW. Their plug and play operation make these laser diodes ideal for a wide range of laboratory and OEM applications.