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Data Sheet

August 1, 2026

ILX LIGHTWAVE

ILX Lightwave LPH-6708B – Ingaas Powerhead

The ILX Lightwave LPH-6708B is an InGaAs powerhead designed for use with ILX Lightwave power meters. It allows for accurate measurement of optical power in the near-infrared range. This powerhead is ideal for characterizing laser diodes, LEDs, and other optical components in research and development or production testing environments.



MODEL

**ILX Lightwave
LPH-6708B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LPH-6708B

LISTING

<https://aumictechlabs.com/products/lph-6708b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave LPH-6708B is an InGaAs powerhead for precise optical power measurements across the near-infrared spectrum. Built around an integrating sphere design, it characterizes laser diodes, LEDs, and discrete optical components with high accuracy. The powerhead integrates with ILX Lightwave optical power meters to deliver quantitative power analysis in R&D and production test environments. Note: This is a legacy product superseded by the OMH-6708B. Technical Specifications Sensor Type: InGaAs (Indium Gallium Arsenide) Wavelength Range: 800 nm to 1600 nm Measurement Range: -40 dBm to +20 dBm Maximum Input Power: +42 dBm (1 W damage threshold) Accuracy: ±5.0% Entrance Aperture: 6 mm Noise Level: 1 nW p-p (typical) Temperature Coefficient: 0.1%/°C (typical) Optical Connector: SC adapter included Key Features Integrating sphere geometry ensures uniform spatial response across the measurement aperture Low noise floor at 1 nW p-p enables detection of weak optical signals Wide dynamic

range from -40 dBm to +20 dBm accommodates diverse source characterization $\pm 5.0\%$ accuracy across the specified wavelength band Minimal temperature drift of $0.1\%/^{\circ}\text{C}$ maintains measurement stability in variable lab conditions Typical Applications Characterization of laser diodes and LEDs in development and qualification Production testing of optical transmitters and receiver modules Power budgeting and loss analysis in fiber-optic system design Absolute power measurement across 800 nm to 1600 nm near-infrared spectrum Compatibility & Integration The LPH-6708B connects to ILX Lightwave optical power meters, including the OMM-6810B model. SC optical adapter is provided; compatibility with FC and ST adapters is supported depending on configuration.

Features & description

From manufacturer datasheet

Features

- InGaAs power-only measurement head (no wavelength measurement)
- Integrating sphere with 6 mm entrance aperture
- Power range -50 to +20 dBm (10 nW to 100 mW)
- Wavelength range 800 to 1600 nm
- NIST-traceable calibration in 10 nm increments
- Compatible with OMM-6810B and LPA-9080
- Optional FC, ST, bare-fiber adapters
- 26-pin high-density D-sub interface to the meter

LPH6708B Characteristics / Specifications

PARAMETER	VALUE
Model	LPH-6708B (equivalent OEM designation OMH-6708B)
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	InGaAs optical power measurement head
Detector	InGaAs
Host Meter	OMM-6810B (also LPA-9080 per head manual)
Wavelength Range	800 to 1600 nm
Power Range	10 nW to 100 mW; -50 dBm to +20 dBm
Power Accuracy	+/-5% (800 to 1600 nm)
Damage Threshold (family brochure)	+37 dBm
Entrance Aperture	6 mm
Noise	about 5 nW p-p typical
Temperature Coefficient	about -0.1%/C typical
Operating Temperature	+10 C to +40 C
Storage Temperature	-40 C to +70 C
Dimensions	about 69 mm diameter x 30 mm thick
Weight	less than 0.5 kg (about 13.3 oz)
Connector to Main Unit	26-pin high-density sub-D Related Models

LPH6708B Specifications

PARAMETER	VALUE
Technical Specifications	Model: LPH-6708B (equivalent OEM designation OMH-6708B)
Related Models	OMH-6727B: InGaAs power and wavelength head, 950-1650 nm, to 1 W
Standard Operating Conditions	Use only with a compatible OMM-6810B (or LPA-9080). Do not exceed damage threshold. Allow meter warm-up per OMM manual.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to +70 C
Operating temperature	+10 C to +40 C
Operating Temperature	+10 C to +40 C
Dimensions	about 69 mm diameter x 30 mm thick
Weight	less than 0.5 kg (about 13.3 oz)
Connector to Main Unit	26-pin high-density sub-D Related Models

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

Parameter	Value
Model	LPH-6708B (equivalent OEM designation OMH-6708B)
Manufacturer	ILX Lightwave (Newport / MKS)
Instrument Type	InGaAs optical power measurement head
Detector	InGaAs
Host Meter	OMM-6810B (also LPA-9080 per head manual)
Wavelength Range	800 to 1600 nm
Power Range	10 nW to 100 mW; -50 dBm to +20 dBm
Power Accuracy	+/-5% (800 to 1600 nm)
Damage Threshold (family brochure)	+37 dBm
Entrance Aperture	6 mm
Noise	about 5 nW p-p typical
Temperature Coefficient	about -0.1%/C typical

Sampling (with OMM-6810B): Slow / Medium / Fast averaging modes

Specifications

PARAMETER	VALUE
Operating Temperature	+10 C to +40 C
Storage Temperature	-40 C to +70 C
Dimensions	about 69 mm diameter x 30 mm thick
Weight	less than 0.5 kg (about 13.3 oz)
Connector to Main Unit	26-pin high-density sub-D

Related Models

OMH-6727B: InGaAs power and wavelength head, 950-1650 nm, to 1 W

OMH-6708B: Newport catalog name for this power-only head

Standard Operating Conditions

Use only with compatible OMM-6810B (or LPA-9080). Do not exceed damage threshold. Allow meter warm-up per OMM manual.

Operational Notes

LPH-6708B and OMH-6708B refer to the same InGaAs powerhead class-confirm faceplate marking. This head does

not measure wavelength; use OMH-6727B for power+wavelength. Fix spelling "Ingaas" to InGaAs in technical text.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.