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Data Sheet

August 13, 2026

KEITHLEY

Keithley 708B 1 Slot Semiconductor Switching Mainframe

The ILX Lightwave LPH-6708B is an InGaAs optical power measurement head for the OMM-6810B Optical Multimeter (also compatible with the LPA-9080 Laser Diode Parameter Analyzer in ILX documentation). Catalog and dealer titles use LPH-6708B; the Newport / MKS product designation for the same InGaAs power-only head is OMH-6708B. It measures optical power from 10 nW to 100 mW (-50 to +20 dBm) over 800 to 1600 nm using an integrating-sphere geometry with a uniform InGaAs detector calibrated to NIST-traceable standards in 10 nm increments. NIR / telecom optical power measurement of laser diodes and fiber sources; free-space or fiber-coupled measurements with FC, ST, or bare-fiber adapters; production and R&D power metrology with the OMM-6810B. Model: LPH-6708B (equivalent OEM designation OMH-6708B) Manufacturer: ILX Lightwave (Newport / MKS) Instrument Type: InGaAs optical power measurement head Host Meter: OMM-6810B (also LPA-9080 per head manual)



MODEL

Keithley 708B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

708B

LISTING

<https://aumictechlabs.com/products/708b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 708B is a single-slot semiconductor switch matrix mainframe that controls up to 96 crosspoints through a single 8×12 matrix card. Designed for high-speed switching in laboratory and production test environments, it delivers command execution in as little as 1.9 ms and trigger-

to-trigger response under 0.5 μ s. The instrument stores hundreds of switching configurations in non-volatile memory and supports both manual front-panel operation and remote control via LXI Class C, USB, and GPIB interfaces. Technical Specifications Matrix Capacity: Single 8 $\times$ 12 matrix card; up to 96 crosspoints Command Execution Speed: 1.9 ms to 20.5 ms depending on interface and card type Trigger Performance: $\leq$ 0.5 μ s (trigger in to trigger out); $\leq$ 85 μ s (trigger in to matrix ready pulse in DDC mode) Maximum Trigger Rate: 65 to 160 scan steps per second depending on card Digital I/O: 14 bits open drain; 25-pin female D connector Digital I/O Voltage Limits: -0.25 V to 5.25 V absolute; 0.7 V max logic low; 2.1 V max logic high Digital I/O Current: 960 μ A source max; 5.0 mA sink max @ 0.7 V Relay Drive: 30 W maximum (6 V at 5.0 A) Power Supply: 100–240 VAC, 50–60 Hz; 110 VA maximum 5V Digital I/O Supply: 600 mA maximum Key Features Embedded TSP[®] processor with TSP-Link[®] interface for integration with Series 2600A/2600B System SourceMeter[®] instruments 707A/708A Device Dependent Commands (DDC) emulation for direct migration from legacy systems Keithley Test Script Builder (TSB) Integrated Development Environment support Non-volatile memory stores hundreds of matrix configurations and channel patterns Compatible with plug-in cards designed for 707A/708A mainframes Compatibility & Integration The 708B accepts popular switching matrix cards including the 7072, 7072-HV, 7173-50, and 7174A, with execution speeds optimized for each card type across Ethernet, GPIB, USB, and TSP-Link control interfaces.

Features & description

From manufacturer datasheet

Features

- InGaAs power-only measurement head (no wavelength measurement)

708B 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

708B 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
Specifications	
PARAMETER	VALUE
Detector	InGaAs
Host Meter	OMM-6810B (also LPA-9080 per head manual)
Wavelength Range	800 to 1600 nm
Specifications	
PARAMETER	VALUE
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
Specifications	
PARAMETER	VALUE
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

PARAMETER	VALUE
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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.