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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 81002-68705 Part II Heatsink for Agilent 81002FF and Agilent 81628B

The Keysight/Agilent/HP 81002-68705 is a Part II heatsink designed for use with Agilent 81002FF and Agilent 81628B devices. It provides thermal management by dissipating heat generated by electronic components, ensuring optimal performance and reliability. This heatsink is essential for maintaining stable operating temperatures in high-power applications.

**MODEL****Keysight / Agilent /
HP 81002-68705****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****81002-68705****LISTING**<https://aumictechlabs.com/products/81002-68705-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent/HP 81002-68705 Part II is a thermal management heatsink accessory engineered for the Agilent 81002FF Integrating Sphere and Agilent 81628B Optical Power Head. It dissipates heat generated during high-power optical measurements, maintaining stable operating temperatures and preventing thermal runaway that could compromise measurement accuracy and device longevity. Technical Specifications Product Designation: 81002-68705 Part II Primary Function: Thermal dissipation for coupled optical measurement devices Thermal Management: Actively manages heat during sustained high-power operation Key Features Prevents thermal-induced performance degradation in integrated measurement systems Maintains stable operating conditions critical for high-power optical testing Designed for operation in systems handling

optical power levels to +40 dBm (10 W) Supports thermal stability above +34 dBm (2.51 W), where metal part temperature limits become a design constraint

Compatibility & Integration

Agilent 81002FF Integrating Sphere The 81002FF accommodates high optical power measurements up to +40 dBm (10 W) with integrating sphere geometry. Compatible with Agilent 8163A, 8166A, and HP 8153A Lightwave Multimeters. Accepts large emission sources and high numerical aperture (NA) inputs to 0.5.

Agilent 81628B Optical Power Head This sensor head is rated for high-power measurements to +40 dBm and incorporates a built-in integrating sphere. Standard configuration uses threaded type adapters; removing the adapter exposes an 8 mm diameter aperture for open-beam or custom fiber holder configurations. Interfaces with 816x mainframes through 81618A or 81619A interface modules. Thermal management becomes essential during sustained operation above +34 dBm, where metal component temperature limits apply. The 81002-68705 Part II heatsink directly addresses thermal constraints in both devices, ensuring measurement repeatability and instrument protection during extended high-power operation.

8100268705 Characteristics / Specifications

PARAMETER	VALUE
Model	81002-68705
Manufacturer	Agilent / Keysight
Instrument Type	Optical Head Heatsink
Alias	81002-68705
Part Role	Part II heatsink
Parent 81002FF	Agilent 81002FF optical head / filter family
Parent 81628B	Agilent 81628B optical head
Function	heatsink thermal path
Form	machined heatsink hardware
NotADetector	no InGaAs/Ge photodiode in this part
Host Mainframes	8163 / 8164 / 8166 lightwave class for 81628B
Connector Parent	81000xl interfaces on the optical head
Status	Agilent optical-head service part
Installation	81002FF / 81628B heatsink procedure
Documentation	81002 / 81628 service heatsink
Use	restore listed thermal hardware
Compatibility	81002FF and 81628B
Identification	81002-68705
Cooling	conduction to this heatsink
ESD	observe head ESD when fitted
Calibration	optical cal is of the head, not the sink
Duty	continuous on the head
Related	PartIhardware isadifferent dash

PARAMETER	VALUE
Not 81000HI	81000HI is E-2000 connector interface Notes Identity from Agilent 81002-68705 Part II heatsink for 81002FF and 81628B. Optical ratings belong to the head. Confirm Part II versus Partland head model before fit.

8100268705 Specifications

PARAMETER	VALUE
Applications	81002FF heatsink replacement
Key Features	Heatsink Part II 81002-68705
Technical Specifications	Model: 81002-68705

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.

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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.