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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85032F Calibration Kit, DC to 9 GHz, Type-N, 50 ohm

Agilent 85032F 50 Ohm TypeNCalibration Kit to 9 GHz The Agilent 85032F is a 50 ohm Type-N mechanical calibration kit used to calibrate network analyzers for Type-N components up to 9 GHz. OEM 85032-90021 user's and service guide Table 2-4 lists broadband-load return loss, adapter return loss, and offset open/short phase deviation; Table 2-1 and Table 2-3 cover environment and pin-depth limits. Full two-port OSL calibration of 50 ohm Type-N devices to 9 GHz, with optional Type-N gender and 7 mm adapters. The Agilent 85032F is a 50 ohm Type-N mechanical calibration kit used to calibrate network analyzers for Type-N components up to 9 GHz. OEM 85032-90021 user's and service guide Table 2-4 lists broadband-load return loss, adapter return loss, and offset open/short phase deviation; Table 2-1 and Table 2-3 cover environment and pin-depth limits. Full two-port OSL calibration of 50 ohm Type-N devices to 9 GHz, with optional Type-N gender and 7 mm adapters. Male and female Type-N loads, opens, and shorts to 9 GHz



MODEL

**Agilent / Keysight
85032F**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85032F

LISTING

<https://aumictechlabs.com/products/85032f-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight/Agilent 85032F is a standard mechanical calibration kit for precise Type-N connector characterization across DC to 9 GHz. Designed to verify and optimize network analyzer

accuracy, this 50-ohm kit delivers metrology-grade performance through precision-machined standards and broadband terminations with distributed resistive elements on sapphire substrates.

Technical Specifications

Frequency Range: DC to 9 GHz

Impedance: 50 Ohms

Connector Type: Type-N (male and female pairs)

Broadband Loads

DC to ≤ 2 GHz: Return Loss ≥ 48 dB ($\leq 0.00398\rho$)

> 2 GHz to ≤ 3 GHz: Return Loss ≥ 45 dB ($\leq 0.00562\rho$)

> 3 GHz to ≤ 6 GHz: Return Loss ≥ 40 dB ($\leq 0.010\rho$)

> 6 GHz to ≤ 9 GHz: Return Loss ≥ 38 dB ($\leq 0.0126\rho$)

Adapters (Optional)

DC to ≤ 9 GHz: Return Loss ≥ 34 dB ($\leq 0.01996\rho$)

Key Features

Six-piece standard set: male and female offset opens, offset shorts, and broadband loads

One-piece inner conductor construction on shorting standards for repeatability

Rugged termination design ensures highly repeatable connections over thermal cycles

Sapphire-substrate distributed resistive elements provide stable return loss across full bandwidth

Optional adapter configurations include male-to-male, female-to-male, female-to-female, and 7mm-to-Type-N converters

Typical Applications

Network analyzer calibration and verification for Keysight and Agilent systems

Type-N component and connector characterization

Systematic error correction in RF and microwave measurement chains

Calibration kit verification and periodic performance assessment

Compatibility & Integration

The 85032F calibrates Keysight and Agilent network analyzer platforms. Multiple configurations - 85032F-100 (standard), 85032F-200 (with male-to-male adapter), 85032F-300 (with female-to-male adapter), and 85032F-500 (with four 7mm-to-Type-N adapters) - enable operation across diverse test setups. User documentation covers specifications, maintenance, performance verification, and replaceable parts.

85032F Characteristics / Specifications

PARAMETER	VALUE
Model	85032F
Instrument Type	Mechanical calibration kit
Connector Type	50 ohm TypeN Frequency Range: DC to 9 GHz
Kit Contents	male and female offset opens, shorts, and broadband loads plus definition disk
Load Return Loss Dc To 2 Ghz	greater than or equal to 48 dB (rho less than or equal to 0.00398)
Load Return Loss 2 To 3 Ghz	greater than or equal to 45 dB (rho less than or equal to 0.00562)
Load Return Loss 3 To 6 Ghz	greater than or equal to 40 dB (rho less than or equal to 0.010)
Load Return Loss 6 To 9 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.0126)
Adapter Return Loss Dc To 9 Ghz	greater than or equal to 34 dB (rho less than or equal to 0.01996); Options 100, 200, and 300 only
Offset Open Dc To 3 Ghz	plus or minus 0.65 deg from nominal
Offset Open 3 To 9 Ghz	plus or minus 1.00 deg from nominal
Offset Short Dc To 3 Ghz	plus or minus 0.65 deg from nominal
Offset Short 3 To 9 Ghz	plus or minus 1.00 deg from nominal
Operating Temperature	+20 C to +26 C
Error Corrected Temperature	plus or minus 1 C of measurement calibration temperature
Storage Temperature	minus 40 C to +75 C
Operating Altitude	less than 4500 meters (about 15000 feet)
Storage Humidity	0 to 95 percent non-condensing
Torque Type N	135 N-cm (12 in-lb) plus or minus 13.5 N-cm
Outer Conductor Inside Diameter	7.0000 plus or minus 0.0076 mm (Table 2-2 typical)
Center Conductor Outside Diameter	3.0404 plus or minus 0.0051 mm (Table 2-2 typical)
Open Short Typical Pin Depth	0 to minus 0.0127 mm (0 to minus 0.0005 in)
Fixed Load Typical Pin Depth	0 to minus 0.0508 mm (0 to minus 0.002 in)
Shared Manual	85032-90021 user's and service guide

PARAMETER	VALUE
Humidity	0 to 95 percent non-condensing
Return loss	Dc To 2 Ghz: greater than or equal to 48 dB (rho less than or equal to 0.00398)

85032F Specifications

PARAMETER	VALUE
Agilent 85032F 50 Ohm Type N Calibration Kit to 9 GHz	Overview
Applications	Full two-port OSL calibration of 50 ohm Type-N devices to 9 GHz, with optional Type-N gender and 7 mm adapters.
Key Features	Male and female Type-N loads, opens, and shorts to 9 GHz
Technical Specifications	Model: 85032F

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to +75 C
Operating temperature	+20 C to +26 C
Operating Temperature	+20 C to +26 C
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Error Corrected Temperature	plus or minus 1 C of measurement calibration temperature
Operating Altitude	less than 4500 meters (about 15000 feet)
Storage Humidity	0 to 95 percent non-condensing
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Fixed Load Typical Pin Depth	0 to minus 0.0508 mm (0 to minus 0.002 in)
Shared Manual	85032-90021 user's and service guide Notes From Agilent 85032F Type-N 50 ohm Calibration Kit User's and Service Guide 85032-90021 Table 2-1 environment, Table 2-2 mechanical, Table 2-3 pin-depth limits, Table 2-4 electrical, and Table 3-1 torque. Adapter return-loss rows apply only to Options 100, 200, and 300.

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	
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Shared Manual	85032-90021 user's and service guide

Notes

From Agilent 85032F Type-N 50 ohm Calibration Kit User's and Service Guide 85032-90021 Table 2-1 environment, Table 2-2 mechanical, Table 2-3 pin-depth limits, Table 2-4 electrical, and Table 3-1 torque. Adapter return-loss rows apply only to Options 100, 200, and 300.

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>

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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.