

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85032

Supplemental Adapter RI 8 To 18 Ghz: greater than or equal to 28 dB typical Error Corrected Temperature: plus or minus 1 C of measurement calibration temperature Torque Type N: 135 N-cm (12 in-lb) plus or minus 13.5 N-cm Limited Service Calibration Code 003: limited calibration of kit devices to 3 GHz ataservice center (85032 only) Error Corrected Temperature: plus or minus 1 C of measurement calibration temperature Torque Type N: 135 N-cm (12 in-lb) plus or minus 13.5 N-cm Limited Service Calibration Code 003: limited calibration of kit devices to 3 GHz ataservice center (85032 only) From Keysight 85032/E 50 ohm Type-N Calibration Kits User's and Service Guide electrical Table 2-3, supplemental Table 2-4, environment, and replaceable-parts list. Code 100 adapters are included only when that option is present.



MODEL

**Agilent / Keysight
85032**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85032

LISTING

[https://aumictechlabs.c
om/products/85032-2/](https://aumictechlabs.com/products/85032-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85032 is a precision calibration kit for network analyzer measurements on 50-ohm Type-N connectors. It delivers essential open, short, and load standards that compensate for systematic errors and enable accurate S-parameter characterization from DC to 6 GHz. The kit's mechanical precision - particularly tight control of pin depth and connector repeatability - ensures phase stability and measurement reliability across research, development, and manufacturing workflows. Technical Specifications Frequency Range: DC to 6 GHz Connector Type: 50-ohm Type-N (male and female) Calibration Standards Included: Open circuits (male and

female) with separate-piece inner conductors and low-dielectric plastic for minimal phase error
Short circuits (male and female) with one-piece inner conductor design for repeatable connections
Broadband 50-ohm loads (male and female) with distributed resistive elements on sapphire substrate
Load Return Loss Performance: ≥ 49 dB ($\rho \leq 0.00355$) DC to ≤ 2 GHz ≥ 46 dB ($\rho \leq 0.00501$) > 2 GHz to ≤ 3 GHz ≥ 40 dB ($\rho \leq 0.01000$) > 3 GHz to ≤ 6 GHz
Operating Temperature: $+15$ °C to $+35$ °C; temperature must remain stable within ± 1 °C during calibration
Key Features
Pin depth control (nominal 5.26 mm / 0.207 inch) manufactured and tested to specification for electrical consistency
Phase-offset standards available for 180-degree reflection coefficient control across the frequency band
Sapphire-substrate loads deliver superior stability and low-frequency performance
Dual-beaded connector geometry ensures repeatable mating cycles
Optional Components
Option 100: Four precision phase-matched 7mm to 50-ohm Type-N adapters with ≥ 30 dB return loss ($\rho \leq 0.03162$) DC to ≤ 6 GHz for non-insertable device measurement
Typical Applications
S-parameter characterization, systematic error correction, frequency-dependent phase compensation, and broadband network analyzer validation in laboratory and production environments.

85032 Characteristics / Specifications

PARAMETER	VALUE
Model	85032
Instrument Type	Mechanical calibration kit
Connector Type	50 ohm TypeN Frequency Range: DC to 6 GHz
Kit Contents Opens Shorts Loads	male and female open, short, and 50 ohm load
TypeN To 7 Mm Adapters Code 1	two Type-N-male to 7 mm and two Type-N-female to 7 mm
Load Return Loss Dc To 2 Ghz	greater than or equal to 49 dB (rho less than or equal to 0.00355)
Load Return Loss 2 To 3 Ghz	greater than or equal to 46 dB (rho less than or equal to 0.00501)
Load Return Loss 3 To 6 Ghz	greater than or equal to 40 dB (rho less than or equal to 0.01000)
Female Open Deviation	plus or minus 0.501 deg plus or minus 0.484 deg/GHz from nominal, DC to 6 GHz
Female Short Deviation	plus or minus 0.490 deg plus or minus 0.385 deg/GHz from nominal, DC to 6 GHz
Male Open Deviation	plus or minus 0.501 deg plus or minus 0.234 deg/GHz from nominal, DC to 6 GHz
Male Short Deviation	plus or minus 0.441 deg plus or minus 0.444 deg/GHz from nominal, DC to 6 GHz
Adapter Return Loss Dc To 6 Ghz	greater than or equal to 30 dB (rho less than or equal to 0.03162) Type-N to 7 mm
Supplemental Load Return Loss 6 To 18 Ghz	greater than or equal to 23 dB (rho less than or equal to 0.07079) typical, not warranted
Supplemental Adapter RI Dc To 8 Ghz	greater than or equal to 34 dB typical
Supplemental Adapter RI 8 To 18 Ghz	greater than or equal to 28 dB typical
Operating Temperature	+15 C to +35 C
Storage Temperature	minus 40 C to +75 C
Error Corrected Temperature	plus or minus 1 C of measurement calibration temperature
Male Load Part	00909-60009
Female Load Part	00909-60010
Torque Type N	135 N-cm (12 in-lb) plus or minus 13.5 N-cm

PARAMETER	VALUE
Limited Service Calibration Code 0	limited calibration of kit devices to 3 GHz at a service center (85032 only)
Return loss	Dc To 2 GHz: greater than or equal to 49 dB (rho less than or equal to 0.00355)

85032 Specifications

PARAMETER	VALUE
Agilent 85032 50 Ohm Type N Calibration Kit to 6 GHz	Overview
Applications	OSL calibration of 50 ohm Type-N devices to 6 GHz on Keysight/HP network analyzers.
Key Features	Male and female open, short, and 50 ohm load
Broadband sapphire loads to 6 GHz	Torque 135 N-cm (12 in-lb) Type-N
Technical Specifications	Model: 85032

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to +75 C
Operating temperature	+15 C to +35 C
Operating Temperature	+15 C to +35 C
Error Corrected Temperature	plus or minus 1 C of measurement calibration temperature
Male Load Part	00909-60009
Female Load Part	00909-60010
Torque Type N	135 N-cm (12 in-lb) plus or minus 13.5 N-cm
Limited Service Calibration Code 0	limited calibration of kit devices to 3 GHz at a service center (85032 only) Notes From Keysight 85032/E 50 ohm Type-N Calibration Kits User's and Service Guide electrical Table 2-3, supplemental Table 2-4, environment, and replaceable-parts list. Code 100 adapters are included only when that option is present.

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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PARAMETER	VALUE
Load Return Loss Dc To 2 Ghz	greater than or equal to 49 dB (rho less than or equal to 0.00355)
Load Return Loss 2 To 3 Ghz	greater than or equal to 46 dB (rho less than or equal to 0.00501)
Load Return Loss 3 To 6 Ghz	greater than or equal to 40 dB (rho less than or equal to 0.01000)
Female Open Deviation	plus or minus 0.501 deg plus or minus 0.484 deg/GHz from nominal, DC to 6 GHz
Female Short Deviation	plus or minus 0.490 deg plus or minus 0.385 deg/GHz from nominal, DC to 6 GHz
Male Open Deviation	plus or minus 0.501 deg plus or minus 0.234 deg/GHz from nominal, DC to 6 GHz
Male Short Deviation	plus or minus 0.441 deg plus or minus 0.444 deg/GHz from nominal, DC to 6 GHz
Adapter Return Loss Dc To 6 Ghz	greater than or equal to 30 dB (rho less than or equal to 0.03162) Type-N to 7 mm
Technical Specifications	
PARAMETER	VALUE
Model	85032
Instrument Type	Mechanical calibration kit
Connector Type	50 ohm Type N
Frequency Range	DC to 6 GHz
Kit Contents Opens Shorts Loads	male and female open, short, and 50 ohm load
Specifications	
PARAMETER	VALUE
Model	85032
Instrument Type	Mechanical calibration kit
Connector Type	50 ohm TypeNFrequency Range: DC to 6 GHz
Kit Contents Opens Shorts Loads	male and female open, short, and 50 ohm load
TypeNTo 7 Mm Adapters Code 100	two Type-N-male to 7 mm and two Type-N-female to 7 mm

PARAMETER	VALUE
Load Return Loss Dc To 2 Ghz	greater than or equal to 49 dB (rho less than or equal to 0.00355)
Load Return Loss 2 To 3 Ghz	greater than or equal to 46 dB (rho less than or equal to 0.00501)
Load Return Loss 3 To 6 Ghz	greater than or equal to 40 dB (rho less than or equal to 0.01000)
Female Open Deviation	plus or minus 0.501 deg plus or minus 0.484 deg/GHz from nominal, DC to 6 GHz
Female Short Deviation	plus or minus 0.490 deg plus or minus 0.385 deg/GHz from nominal, DC to 6 GHz
Male Open Deviation	plus or minus 0.501 deg plus or minus 0.234 deg/GHz from nominal, DC to 6 GHz
Male Short Deviation	plus or minus 0.441 deg plus or minus 0.444 deg/GHz from nominal, DC to 6 GHz
Adapter Return Loss Dc To 6 Ghz	greater than or equal to 30 dB (rho less than or equal to 0.03162) Type-N to 7 mm

Supplemental Load Return Loss 6 To 18 Ghz: greater than or equal to 23 dB (rho less than or equal to 0.07079) typical, not warranted

Specifications

PARAMETER	VALUE
Supplemental Adapter Rl Dc To 8 Ghz	greater than or equal to 34 dB typical
Supplemental Adapter Rl 8 To 18 Ghz	greater than or equal to 28 dB typical
Operating Temperature	+15 C to +35 C
Storage Temperature	minus 40 C to +75 C
Error Corrected Temperature	plus or minus 1 C of measurement calibration temperature
Male Load Part	00909-60009
Female Load Part	00909-60010
Torque Type N	135 N-cm (12 in-lb) plus or minus 13.5 N-cm
Limited Service Calibration Code 003	limited calibration of kit devices to 3 GHz ataservice center (85032 only)

Notes

From Keysight 85032/E 50 ohm Type-N Calibration Kits User's and Service Guide electrical Table 2-3, supplemental Table 2-4, environment, and replaceable-parts list. Code 100 adapters are included only when that option is present.

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.