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**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

# Agilent / Keysight 85032E Calibration Kit, DC to 6 GHz, Type-N, 50 ohm

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 Family: greater than or equal to 30 dB DC to 6 GHz for Type-N to 7 mm (85032B Option 100; not included in 85032E) Supplemental Load Return Loss 6 To 18 Ghz: greater than or equal to 23 dB typical Error Corrected Temperature: plus or minus 1 C of measurement calibration temperature Adapter Return Loss Family: greater than or equal to 30 dB DC to 6 GHz for Type-N to 7 mm (85032B Option 100; not included in 85032E) Supplemental Load Return Loss 6 To 18 Ghz: greater than or equal to 23 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



MODEL

**Agilent / Keysight  
85032E**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**85032E**

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Agilent/Keysight 85032E is a mechanical calibration kit for Type-N 50-ohm network analyzer measurements spanning DC to 6 GHz. It delivers the precision standards required for accurate RF and microwave component characterization, with calibration traceability to NIST. The kit combines a male combination open/short termination with a 50-ohm male load, engineered for repeatable

connections and minimal phase error across the full frequency range. Technical Specifications

Frequency Range: DC to 6 GHz Impedance: 50 ohms Connector Type: Type-N (male/male) Return Loss (Loads):  $- \geq 49$  dB ( $\rho \leq 0.00355$ ) from DC to  $\leq 2$  GHz  $- \geq 46$  dB ( $\rho \leq 0.00501$ ) from  $> 2$  GHz to  $\leq 3$  GHz  $- \geq 40$  dB ( $\rho \leq 0.01000$ ) from  $> 3$  GHz to  $\leq 6$  GHz Operating Temperature:  $+15$  °C to  $+35$  °C Error-Corrected Temperature Range:  $\pm 1$  °C of calibration temperature Storage Temperature:  $-40$  °C to  $+75$  °C Altitude (Operation):  $< 4,500$  meters Relative Humidity: 0% to 95% at  $40$  °C, non-condensing Type-N Pin Depth Offset: Approximately 5.26 mm (0.207 inch) Key Features

Shorts feature one-piece inner conductor construction for repeatable mating cycles Female opens utilize low-dielectric-constant plastic to minimize compensation values Pin depth tightly controlled to minimize phase errors Offsets approximately 180 degrees phase difference across all frequencies 50-ohm loads incorporate distributed resistive element on sapphire substrate for excellent stability Rugged internal structure ensures repeatable connections Supplied with foam-lined storage case Typical Applications Network analyzer calibration for Type-N 50-ohm devices Laboratory RF and microwave measurements Component characterization in enterprise test environments Compatibility & Integration Designed for Keysight ENA and PNA series network analyzers calibrating 50-ohm Type-N devices. Calibration measurements maintain NIST traceability.

## 85032E Characteristics / Specifications

| PARAMETER                                 | VALUE                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Model                                     | 85032E                                                                                                    |
| Instrument Type                           | Mechanical calibration kit                                                                                |
| Connector Type                            | 50 ohm TypeN<br>Frequency Range: DC to 6 GHz                                                              |
| Kit Contents                              | male broadband load and male combination open/short                                                       |
| Male Load Part                            | 00909-60009                                                                                               |
| Male Open Short Part                      | 85032-60011                                                                                               |
| 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 Family              | plus or minus 0.501 deg plus or minus 0.484 deg/GHz from nominal, DC to 6 GHz (Table 2-3 family)          |
| Female Short Deviation Family             | 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 Family                | greater than or equal to 30 dB DC to 6 GHz for Type-N to 7 mm (85032B Option 100; not included in 85032E) |
| Supplemental Load Return Loss 6 To 18 Ghz | greater than or equal to 23 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                                                  |
| Torque Type N                             | 135 N-cm (12 in-lb) plus or minus 13.5 N-cm                                                               |
| Case Part                                 | 9211-1582 case without foam; 85023-80005 foam pad set                                                     |
| Shared Manual                             | 85032-90020 user's and service guide                                                                      |

| PARAMETER   | VALUE                                                                           |
|-------------|---------------------------------------------------------------------------------|
| Return loss | Dc To 2 Ghz: greater than or equal to 49 dB (rho less than or equal to 0.00355) |

# 85032E Specifications

| PARAMETER                | VALUE                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------|
| Applications             | Single-gender Type-N OSL calibration to 6 GHz where a full dual-gender 85032B kit is not required. |
| Key Features             | Male 50 ohm load plus male combination open/short                                                  |
| Economy storage case     | Uses 85032B/E standard definitions                                                                 |
| Technical Specifications | Model: 85032E                                                                                      |

# 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                                                                                                                                                                                                                                |
| Torque Type N               | 135 N-cm (12 in-lb) plus or minus 13.5 N-cm                                                                                                                                                                                                                                             |
| Case Part                   | 9211-1582 case without foam; 85023-80005 foam pad set                                                                                                                                                                                                                                   |
| Shared Manual               | 85032-90020 user's and service guide Notes From Keysight 85032B/E User's and Service Guide. 85032E kit contents are Table 6-2; electrical rows are Table 2-3 (shared with 85032B). Female open/short and adapter rows are the published family table; 85032E ships male-only standards. |

# 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 as 85032B for Type-N devices.

Applications

Single-gender Type-N OSL calibration to 6 GHz whereafull dual-gender 85032B kit is not required.

Key Features

Male 50 ohm load plus male combination open/short

Same 6 GHz electrical table as 85032B

Economy storage case

Uses 85032B/E standard definitions

Type-N 135 N-cm torque

Technical Specifications

### Technical Specifications

| PARAMETER                     | VALUE                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|
| Model                         | 85032E                                                                                                    |
| Instrument Type               | Mechanical calibration kit                                                                                |
| Connector Type                | 50 ohm TypeNFrequency Range: DC to 6 GHz                                                                  |
| Kit Contents                  | male broadband load and male combination open/short                                                       |
| Male Load Part                | 00909-60009                                                                                               |
| Male Open Short Part          | 85032-60011                                                                                               |
| 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 Family  | plus or minus 0.501 deg plus or minus 0.484 deg/GHz from nominal, DC to 6 GHz (Table 2-3 family)          |
| Female Short Deviation Family | 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 Family    | greater than or equal to 30 dB DC to 6 GHz for Type-N to 7 mm (85032B Option 100; not included in 85032E) |

Supplemental Load Return Loss 6 To 18 Ghz: greater than or equal to 23 dB typical

### Specifications

| PARAMETER             | VALUE          |
|-----------------------|----------------|
| Operating Temperature | +15 C to +35 C |

| PARAMETER                   | VALUE                                                    |
|-----------------------------|----------------------------------------------------------|
| Storage Temperature         | minus 40 C to +75 C                                      |
| 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              |
| Case Part                   | 9211-1582 case without foam; 85023-80005 foam pad set    |
| Shared Manual               | 85032-90020 user's and service guide                     |

Notes

From Keysight 85032B/E User's and Service Guide. 85032E kit contents are Table 6-2; electrical rows are Table 2-3 (shared with 85032B). Female open/short and adapter rows are the published family table; 85032E ships male-only standards.

### Available from Aumictech

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

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

#### Aumictech

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Generated August 14, 2026

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