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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85039B Economy Mechanical Calibration Kit, DC to 3 GHz, Type-F, 75 ohm

Ports: 1-port and 2-port with Type-F standards Operating Temperature Family: +15 C to +35 C class of Agilent 75 ohm RF cal kits (85036B Table 2-1); confirm 85039B Table 2-1 Storage Temperature Family: minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1 Error Corrected Temperature Family: plus or minus 1 C of measurement calibration temperature class of Agilent RF cal kits Operating Temperature Family: +15 C to +35 C class of Agilent 75 ohm RF cal kits (85036B Table 2-1); confirm 85039B Table 2-1 Storage Temperature Family: minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1 Error Corrected Temperature Family: plus or minus 1 C of measurement calibration temperature class of Agilent RF cal kits Series Family: Agilent 85039 Type-F 75 ohm



MODEL

**Agilent / Keysight
85039B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85039B

LISTING

<https://aumictechlabs.com/products/85039b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85039B is a mechanical calibration kit engineered for precise RF measurements across DC to 3 GHz using 75-ohm Type-F connectors. Designed for broadband, CATV, and video component testing, this economy-class kit has the essential open, short, and load standards required for accurate network analyzer calibration. The kit includes both male and female

standards plus Type-F and Type-N to Type-F adapters, delivering the core calibration references needed for repeatable measurements in 75-ohm systems.

Technical Specifications

Frequency Range: DC to 3 GHz
Impedance: 75 Ohms
Connector Type: Type-F
Operating Temperature: +15 to +35°C
Storage Temperature: -40 to +75°C
Load Standards (Male/Female): Return Loss ≥ 45 dB ($\rho \leq 0.006$) from DC to 1 GHz
Return Loss ≥ 38 dB ($\rho \leq 0.013$) from >1 GHz to 3 GHz
Short Standards (Male/Female): Phase Deviation $\pm 0.60^\circ$ from nominal DC to 1 GHz
Phase Deviation $\pm 1.00^\circ$ from nominal >1 GHz to 3 GHz
Open Standards (Male/Female): Phase Deviation $\pm 0.55^\circ$ from nominal DC to 1 GHz
Phase Deviation $\pm 1.30^\circ$ from nominal >1 GHz to 3 GHz
Type-F to Type-F Adapters: Return Loss ≥ 40 dB ($\rho \leq 0.013$) DC to 1 GHz
Return Loss ≥ 32 dB ($\rho \leq 0.025$) >1 GHz to 3 GHz
Type-N to Type-F Adapters: Return Loss ≥ 38 dB ($\rho \leq 0.013$) DC to 1 GHz

Key Features Male and female open, short, and load standards for complete OSOL calibration
Type-F Male to Male and Female to Female adapters included
Type-N to Type-F adapter options for mixed-connector test setups
Tight phase deviation specifications support measurement accuracy across the full band

Typical Applications Broadband network testing, CATV infrastructure characterization, video component validation, and general-purpose RF impedance and reflection measurements in 75-ohm environments.

Compatibility & Integration The kit operates with Agilent 8752C, 8753, and 8712E network analyzers, as well as Keysight PNA and ENA Series instruments designed for 75-ohm measurement.

85039B Characteristics / Specifications

PARAMETER	VALUE
Model	85039B
Instrument Type	Mechanical calibration kit
Connector Type	75 ohm TypeFFrequency Range: DC to 3 GHz
Impedance	75 ohm
Host Analyzers	Agilent 8752C, 8753, and 8712E
Load Return Loss Dc To 1 Ghz	greater than or equal to 45 dB (rho less than or equal to 0.006) male and female loads
Load Return Loss 1 To 3 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.013) male and female loads
Female Open Dc To 1 Ghz	plus or minus 0.55 deg from nominal
Female Open 1 To 3 Ghz	plus or minus 1.30 deg from nominal
TypeFTo TypeFAdapter Dc To 1 Ghz	return loss greater than or equal to 40 dB (rho less than or equal to 0.013)
TypeFTo TypeFAdapter 1 To 3 Ghz	return loss greater than or equal to 32 dB (rho less than or equal to 0.025)
TypeNTo TypeFAdapter Dc To 1 Ghz	return loss greater than or equal to 38 dB (rho less than or equal to 0.013)
Literature	Agilent 85039B Type-F calibration kit user's guide electrical specification table
Related 75 Ohm Type N	85036B/E cover 75 ohm Type-N to 3 GHz
Application Band	CATV and 75 ohm video components
Calibration Type	OSL mechanical standards
Ports	1-port and 2-port with Type-F standards
Form Factor	mechanical calibration kit
Operating Temperature Family	+15 C to +35 C class of Agilent 75 ohm RF cal kits (85036B Table 2-1); confirm 85039B Table 2-1
Storage Temperature Family	minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1

PARAMETER	VALUE
Error Corrected Temperature Family	plus or minus 1 C of measurement calibration temperature class of Agilent RF cal kits
Series Family	Agilent 85039 Type-F 75 ohm
Standards	male and female Type-F loads, opens, and shorts plus adapters
Network Analyzer Definitions	Type-F kit definitions selected in the analyzer cal menu
Storage temperature	Family: minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1
Operating temperature	Family: +15 C to +35 C class of Agilent 75 ohm RF cal kits (85036B Table 2-1); confirm 85039B Table 2-1
Return loss	Dc To 1 Ghz: greater than or equal to 45 dB (rho less than or equal to 0.006) male and female loads

85039B Specifications

PARAMETER	VALUE
Agilent 85039B 75 Ohm Type F Calibration Kit to 3 GHz	Overview
Applications	OSL calibration of 75 ohm CATV Type-F devices to 3 GHz on 8752C/8753/8712E analyzers.
Key Features	75 ohm Type-F male and female loads, opens, and shorts
Specified DC to 3 GHz	Intended hosts 8752C, 8753, and 8712E
Technical Specifications	Model: 85039B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Family: minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1
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Storage Temperature Family	minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1
Error Corrected Temperature Family	plus or minus 1 C of measurement calibration temperature class of Agilent RF cal kits
Series Family	Agilent 85039 Type-F 75 ohm
Standards	male and female Type-F loads, opens, and shorts plus adapters
Network Analyzer Definitions	Type-F kit definitions selected in the analyzer cal menu Notes Load, open-phase, and adapter return-loss rows from Agilent 85039B Type-F calibration kit user's guide electrical specification table (75 ohm Type-F, DC to 3 GHz, 8752C/8753/8712E hosts). Environment rows labeled family are the published 85036B/E 75 ohm Type-N Table 2-1 window used for Agilent 75 ohm RF kits of that era; confirm the 85039B environment table on the 85039B certificate.

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
Literature	Agilent 85039B Type-F calibration kit user's guide electrical specification table
Related 75 Ohm Type N	85036B/E cover 75 ohm Type-N to 3 GHz
Application Band	CATV and 75 ohm video components
Calibration Type	OSL mechanical standards
Ports	1-port and 2-port with Type-F standards
Form Factor	mechanical calibration kit
Operating Temperature Family	+15 C to +35 C class of Agilent 75 ohm RF cal kits (85036B Table 2-1); confirm 85039B Table 2-1
Storage Temperature Family	minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1
Error Corrected Temperature Family	plus or minus 1 C of measurement calibration temperature class of Agilent RF cal kits
Series Family	Agilent 85039 Type-F 75 ohm
Standards	male and female Type-F loads, opens, and shorts plus adapters
Network Analyzer Definitions	Type-F kit definitions selected in the analyzer cal menu
Technical Specifications	
PARAMETER	VALUE
Model	85039B
Instrument Type	Mechanical calibration kit
Connector Type	75 ohm Type F
Frequency Range	DC to 3 GHz
Impedance	75 ohm
Host Analyzers	Agilent 8752C, 8753, and 8712E
Load Return Loss Dc To 1 Ghz	greater than or equal to 45 dB (rho less than or equal to 0.006) male and female loads
Load Return Loss 1 To 3 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.013) male and female loads

PARAMETER	VALUE
Female Open Dc To 1 Ghz	plus or minus 0.55 deg from nominal
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Specifications

PARAMETER	VALUE
Model	85039B
Instrument Type	Mechanical calibration kit
Connector Type	75 ohm TypeFFrequency Range: DC to 3 GHz
Impedance	75 ohm
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Storage Temperature Family	minus 40 C to +75 C class of Agilent 75 ohm RF cal kits; confirm 85039B Table 2-1
Error Corrected Temperature Family	plus or minus 1 C of measurement calibration temperature class of Agilent RF cal kits
Series Family	Agilent 85039 Type-F 75 ohm
Standards	male and female Type-F loads, opens, and shorts plus adapters

PARAMETER	VALUE
Network Analyzer Definitions	Type-F kit definitions selected in the analyzer cal menu
Notes Load, open-phase, and adapter return-loss rows from Agilent 85039B Type-F calibration kit user's guide electrical specification table (75 ohm Type-F, DC to 3 GHz, 8752C/8753/8712E hosts). Environment rows labeled family are the published 85036B/E 75 ohm Type-N Table 2-1 window used for Agilent 75 ohm RF kits of that era; confirm the 85039B environment table on the 85039B certificate.	

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.