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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85039A Calibration Kit, Type-F

HP Agilent Keysight 85039A Type F 75 Ohm Calibration Kit DC to 3 GHz The Agilent 85039A is the earlier Type-F 75 ohm mechanical calibration kit specified DC to 3 GHz for CATV and 75 ohm analyzers. OEM 85039B user's-manual electrical table (successor kit) lists load return loss greater than or equal to 45 dB DC to 1 GHz and 38 dB to 3 GHz, open/short phase deviation, and Type-F adapter return loss; 85039A provides the same Type-F 75 ohm SOL function to 3 GHz. SOL calibration of 75 ohm Type-F CATV devices to 3 GHz. The Agilent 85039A is the earlier Type-F 75 ohm mechanical calibration kit specified DC to 3 GHz for CATV and 75 ohm analyzers. OEM 85039B user's-manual electrical table (successor kit) lists load return loss greater than or equal to 45 dB DC to 1 GHz and 38 dB to 3 GHz, open/short phase deviation, and Type-F adapter return loss; 85039A provides the same Type-F 75 ohm SOL function to 3 GHz. SOL calibration of 75 ohm Type-F CATV devices to 3 GHz. Instrument Type: 75 ohm TypeFmechanical calibration kit



MODEL

**Agilent / Keysight
85039A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85039A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85039A is a Type-F calibration kit engineered for precision calibration of 75-ohm RF and microwave test equipment. It delivers traceable calibration standards and adapters across DC to 3 GHz, enabling accurate S-parameter measurements and network analyzer

validation on systems equipped with Type-F interfaces. Technical Specifications Frequency Range: DC to 3 GHz Impedance: 75 ohms Connector Type: Type-F male standards Operating Temperature: +15 to +35°C Storage Temperature: -40 to +75°C Key Features The kit comprises three primary calibration standards. The Type-F Male Open standard exhibits phase deviation of $\pm 0.55^\circ$ from DC to 1 GHz and $\pm 1.30^\circ$ from 1 GHz to 3 GHz. The Type-F Male Short standard provides phase deviation of $\pm 0.60^\circ$ from DC to 1 GHz and $\pm 1.00^\circ$ from 1 GHz to 3 GHz. The Type-F Male Load delivers return loss exceeding 32 dB ($p \leq 0.025$) from 1.3 GHz to 3 GHz, with return loss ≥ 45 dB ($p \leq 0.006$) from DC to 1 GHz and ≥ 38 dB ($p \leq 0.013$) from 1 GHz to 3 GHz. Included adapters extend system flexibility. Type-N to Type-F adapters provide return loss ≥ 38 dB ($p \leq 0.013$) from DC to 1 GHz and > 26 dB ($p < 0.050$) from 1.3 GHz to 3 GHz. Type-F to Type-F female adapters specify return loss ≥ 40 dB ($p \leq 0.013$) from DC to 1 GHz and ≥ 32 dB ($p \leq 0.025$) from 1 GHz to 3 GHz. Typical Applications Calibration of network analyzer systems and 75-ohm test equipment. S-parameter measurement validation across RF and microwave frequency bands. Compatibility & Integration Designed for Keysight 8752C, 8753 Series (8753A, 8753B, 8753C, 8753D), 75-ohm test sets, and Agilent 8712E Network Analyzer Systems. Connectors comply with SCTE specifications; center conductor dimensions range from 0.56 to 1.07 mm (0.022 to 0.042 inches). ESD precautions required during handling.

85039A Characteristics / Specifications

PARAMETER	VALUE
Model	85039A
Instrument Type	75 ohm TypeFmechanical calibration kit
Connector Type	Type F 75 ohm
Frequency Range	DC to 3 GHz
System Impedance	75 ohm
Successor Kit	85039B
Load Return Loss Dc To 1 Ghz	greater than or equal to 45 dB (rho less than or equal to 0.006)
Load Return Loss 1 To 3 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.013)
Short Phase Dc To 1 Ghz	plus or minus 0.60 deg from nominal
Short Phase 1 To 3 Ghz	plus or minus 1.00 deg from nominal
Open Phase Dc To 1 Ghz	plus or minus 0.55 deg from nominal
Open Phase 1 To 3 Ghz	plus or minus 1.30 deg from nominal
TypeFAdapter Return Loss Dc To 1 Ghz	greater than or equal to 40 dB
TypeFAdapter Return Loss 1 To 3 Ghz	greater than or equal to 32 dB
TypeNTo TypeFReturn Loss Dc To 1 Ghz	greater than or equal to 38 dB
Operating Temperature	plus 15 C to plus 35 C
Storage Temperature	minus 40 C to plus 75 C
Host Analyzers	Agilent 8752C, 8753, and 8712E 75 ohm systems
Male Load Part Class	85039-60007 class on 85039B-M0F list
Female Load Part Class	85039-60004 class on 85039B-M0F list
Calibration Method	SOL
Related EconomyNKit	85036E Type N 75 ohm
Return loss	Dc To 1 Ghz: greater than or equal to 45 dB (rho less than or equal to 0.006)

85039A Specifications

PARAMETER	VALUE
Applications	SOL calibration of 75 ohm Type-F CATV devices to 3 GHz.
Key Features	75 ohm Type F opens shorts and loads
Specified DC to 3 GHz	Works with 75 ohm 8752 8753 8712 systems
Male and female Type F standards	Superseded in catalog by 85039B
Technical Specifications	Model: 85039A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 75 C
Operating temperature	plus 15 C to plus 35 C
Operating Temperature	plus 15 C to plus 35 C
Host Analyzers	Agilent 8752C, 8753, and 8712E 75 ohm systems
Male Load Part Class	85039-60007 class on 85039B-M0F list
Female Load Part Class	85039-60004 class on 85039B-M0F list
Calibration Method	SOL
Related EconomyNKit	85036E Type N 75 ohm Notes Electrical rows from the Agilent 85039B Type-F calibration kit user's-manual device specification table, which documents the Type-F 75 ohm family that replaced 85039A. Confirm 85039A kit contents (male-only vs mixed) on the installed kit list.

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	
Specifications	
PARAMETER	VALUE
Operating Temperature	plus 15 C to plus 35 C
Storage Temperature	minus 40 C to plus 75 C
Host Analyzers	Agilent 8752C, 8753, and 8712E 75 ohm systems
Male Load Part Class	85039-60007 class on 85039B-M0F list
Female Load Part Class	85039-60004 class on 85039B-M0F list
Calibration Method	SOL
Related Economy N Kit	85036E Type N 75 ohm
Technical Specifications	
PARAMETER	VALUE
Model	85039A
Instrument Type	75 ohm Type F mechanical calibration kit
Connector Type	Type F 75 ohm
Frequency Range	DC to 3 GHz
System Impedance	75 ohm
Successor Kit	85039B
Load Return Loss Dc To 1 Ghz	greater than or equal to 45 dB (rho less than or equal to 0.006)
Load Return Loss 1 To 3 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.013)
Short Phase Dc To 1 Ghz	plus or minus 0.60 deg from nominal
Short Phase 1 To 3 Ghz	plus or minus 1.00 deg from nominal
Open Phase Dc To 1 Ghz	plus or minus 0.55 deg from nominal
Open Phase 1 To 3 Ghz	plus or minus 1.30 deg from nominal
Specifications	
PARAMETER	VALUE
Model	85039A
Instrument Type	75 ohm TypeFmechanical calibration kit

PARAMETER	VALUE
Connector Type	Type F 75 ohm
Frequency Range	DC to 3 GHz
System Impedance	75 ohm
Successor Kit	85039B
Load Return Loss Dc To 1 Ghz	greater than or equal to 45 dB (rho less than or equal to 0.006)
Load Return Loss 1 To 3 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.013)
Short Phase Dc To 1 Ghz	plus or minus 0.60 deg from nominal
Short Phase 1 To 3 Ghz	plus or minus 1.00 deg from nominal
Open Phase Dc To 1 Ghz	plus or minus 0.55 deg from nominal
Open Phase 1 To 3 Ghz	plus or minus 1.30 deg from nominal
TypeFAdapter Return Loss Dc To 1 Ghz	greater than or equal to 40 dB
TypeFAdapter Return Loss 1 To 3 Ghz	greater than or equal to 32 dB
TypeNTo TypeFReturn Loss Dc To 1 Ghz	greater than or equal to 38 dB
Operating Temperature	plus 15 C to plus 35 C
Storage Temperature	minus 40 C to plus 75 C
Host Analyzers	Agilent 8752C, 8753, and 8712E 75 ohm systems
Male Load Part Class	85039-60007 class on 85039B-M0F list
Female Load Part Class	85039-60004 class on 85039B-M0F list
Calibration Method	SOL
Related EconomyNKit	85036E Type N 75 ohm

Notes

Electrical rows from the Agilent 85039B Type-F calibration kit user's-manual device specification table, which documents the Type-F 75 ohm family that replaced 85039A. Confirm 85039A kit contents (male-only vs mixed) on the installed kit list.

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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NIST-traceable calibration · SAM registered ·
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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.