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Data Sheet

August 13, 2026

AGILENT / HP / KEYSIGHT

Agilent HP Keysight 85093D RF Electronic Calibration Module (ECal), DC/300 KHz to 9 GHz, 3.5 mm, 2 port

Keysight 85093D RF Electronic Calibration Module 3.5 mm to 9 GHz The Keysight 85093D is a 2-port RF ECal module with 3.5 mm connectors covering DC or 300 kHz to 9 GHz (options). Factory-characterized electronic impedance states stored in module memory enable single-connection full 2-port calibration of compatible PNA/ENA network analyzers with optional mixed-connector ports. The Keysight 85093D is a 2-port RF ECal module with 3.5 mm connectors covering DC or 300 kHz to 9 GHz (options). Factory-characterized electronic impedance states stored in module memory enable single-connection full 2-port calibration of compatible PNA/ENA network analyzers with optional mixed-connector ports.

**MODEL****Agilent / HP /
Keysight 85093D****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****85093D****LISTING**<https://aumictechlabs.com/products/85093d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85093D is a 2-port RF Electronic Calibration (ECal) module that delivers full two-port VNA calibration through a single connection. Operating from DC/300 kHz to 9 GHz with 3.5 mm connectors, this solid-state device eliminates mechanical calibration kit complexity while maintaining NIST-traceable accuracy comparable to traditional methods. USB control via

compatible Keysight network analyzers enables direct operation without external PC infrastructure. Technical Specifications Frequency Range: DC/300 kHz to 9 GHz with characterization across DC–10 MHz, 300 kHz–10 MHz, 10 MHz–1 GHz, 1 GHz–3 GHz, 3 GHz–6 GHz, and 6 GHz–9 GHz bands Ports: 2-port configuration Connectors: 3.5 mm; available as dual female, dual male, or mixed configurations; compatible with Type-N, 7-16, and 4.3-10 adapters Switching: Solid-state architecture for reliability and reduced connector wear Interface: USB for direct VNA control Operating Temperature: +20 °C to +26 °C Humidity: Up to 95% RH at 40 °C, non-condensing Calibration Accuracy: NIST traceable; transfer standard performance equivalent to mechanical calibration kits Key Features Single-connection two-port calibration eliminates manual kit component handling Minimal operator error during calibration sequences Direct USB integration with compatible analyzers Reduced connector wear through solid-state switching Factory calibration accuracy transferred to measurement system Compatibility & Integration The 85093D operates with Keysight PNA, ENA, PXI, and Streamline series network analyzers, including PNA-series, ENA E5061B and E5063A, P937xA/P937xB/P938xB Streamline modules, FieldFox B-series, and USB VNA platforms.

Features & description

From manufacturer datasheet

Features

- Single-connection full 2-port electronic calibration
- Frequency coverage DC/300 kHz to 9 GHz by option
- 3.5 mm connectors with gender options 00M 00F M0F
- Mixed connector options Type-N 4.3-10 7-16
- Up to five user characterizations plus factory data
- Direct control from compatible PNA and ENA firmware

Applications

- Fast 2-port electronic calibration of RF VNAs to 9 GHz
- Manufacturing and R&D calibration routines
- Non-insertable calibrations with matched gender options
- Mixed-connector calibrations with optioned port styles

85093D Characteristics / Specifications

PARAMETER	VALUE
Model	85093D
Manufacturer	Keysight
Instrument Type	RF Electronic Calibration Module
Alias	85093D; Keysight 85093D ECal
Frequency range Option 0	300 kHz to 9 GHz
Frequency range Option 0DC	DC to 9 GHz
Port count	2
Connector type standard	3.5 mm
Family	8509xD Series RF ECal
Maximum recommended input power	+9.0 dBm
Damage level typical	+20.0 dBm
Directivity DC to 10 MHz Option 0DC class	52 dB
Directivity 300 kHz to 10 MHz	45 dB
Directivity 10 MHz to 1 GHz	52 dB
Directivity 1 to 3 GHz	52 dB
Directivity 3 to 6 GHz	50 dB class
Directivity 6 to 9 GHz	47 dB
Source match 10 MHz to 1 GHz	44 dB
Source match 6 to 9 GHz	34 dB class
Reflection tracking 10 MHz to 1 GHz	+/-0.03 dB
Reflection tracking 6 to 9 GHz	+/-0.07 dB class
User characterizations stored	up to 5
Gender options	M0F 00M 00F
Mixed connectors	Type-N 50 ohm, 4.3-10, 7-16 options
Traceability	NIST via factory characterization

PARAMETER	VALUE
Host control	PNA ENA compatible firmware Notes Corrected residual e-term specs from Keysight ECal technical overview for 85093D (3.5 mm RF). Confirm Option 003 vs 0DC and connector gender option on the module.

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
Model	85093D
Manufacturer	Keysight
Instrument Type	RF Electronic Calibration Module
Alias	85093D; Keysight 85093D ECal
Frequency range Option 003	300 kHz to 9 GHz
Frequency range Option 00C	DC to 9 GHz
Port count	2
Connector type standard	3.5 mm
Family	8509xD Series RF ECal
Maximum recommended input power	+9.0 dBm
Damage level typical	+20.0 dBm
Directivity DC to 10 MHz Option 00C class: 52 dB	
Specifications	
PARAMETER	VALUE
Directivity 300 kHz to 10 MHz	45 dB
Directivity 10 MHz to 1 GHz	52 dB
Directivity 1 to 3 GHz	52 dB
Directivity 3 to 6 GHz	50 dB class
Directivity 6 to 9 GHz	47 dB
Source match 10 MHz to 1 GHz	44 dB
Source match 6 to 9 GHz	34 dB class
Reflection tracking 10 MHz to 1 GHz	+/-0.03 dB
Reflection tracking 6 to 9 GHz	+/-0.07 dB class
User characterizations stored	up to 5
Gender options	M0F 00M 00F

PARAMETER	VALUE
Mixed connectors	Type-N 50 ohm, 4.3-10, 7-16 options
Traceability	NIST via factory characterization
Host control	PNA ENA compatible firmware

Notes
Corrected residual e-term specs from Keysight ECal technical overview for 85093D (3.5 mm RF). Confirm Option 003 vs 0DC and connector gender option on the module.

Ordering Information

OPTION	DESCRIPTION
Option 003	vs ODC and connector gender option on the module.

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.