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Data Sheet

August 1, 2026

AGILENT

HP / Agilent 85093B RF Electronic Calibration (ECal) Module, 3.5mm

HP / Agilent 85093B RF Electronic Calibration (ECal) Module, 3.5 mm The HP / Agilent 85093B is a two-port RF electronic calibration (ECal) module with 3.5 mm connectors for vector network analyzers. It provides programmable, highly repeatable solid-state impedance states for fast one- and two-port calibrations with a single connection. Keysight documentation maps 85093B (part family 85093-60003) as the predecessor to the 85093C 3.5 mm ECal covering 300 kHz to 9 GHz. ECal accuracy is comparable to mechanical kits while cutting connection count and operator error. The HP / Agilent 85093B is a two-port RF electronic calibration (ECal) module with 3.5 mm connectors for vector network analyzers. It provides programmable, highly repeatable solid-state impedance states for fast one- and two-port calibrations with a single connection. Keysight documentation maps 85093B (part family 85093-60003) as the predecessor to the 85093C 3.5 mm ECal covering 300 kHz to 9 GHz. ECal accuracy is comparable to mechanical kits while cutting connection count and operator error. Full two-port and one-port VNA calibration on PNA, ENA, 8753, 8720, 8510, and related analyzers; production and lab RF S-parameter measurements requiring frequent re-cal; mixed connector systems when configured with adapter/mixed-connector options.

No photo

MODEL Agilent 85093B	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU 85093B	LISTING Off-catalog — OEM dat asheet only

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- RF two-port ECal, 3.5 mm connectors
- Frequency coverage 300 kHz to 9 GHz (85093B/C class)
- USB control from PNA-series analyzers; PC/Windows control for older 8753/8720/8510 systems via interface
- Single-connection electronic standards replace multiple mechanical opens/shorts/loads/thrus
- Transfer-standard style, factory-characterized states
- Connector gender options including MOF (mixed male/female), 00F, 00M, and mixed-connector kits on the C-series successor
- Precision slotless 3.5 mm connectors for best accuracy transfer

85093B Characteristics / Specifications

PARAMETER	VALUE
Model	85093B
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	RF two-port electronic calibration (ECal) module
Connector Type	3.5 mm
Frequency Range	300 kHz to 9 GHz
Part Family Mapping	85093B (85093-60003) superseded by 85093C in Keysight ECal guides Typical Corrected Performance (85093C 3.5 mm published table; same band/class as 85093B)
Frequency bands	300 kHz-10 MHz / 10 MHz-1 GHz / 1-3 GHz / 3-6 GHz / 6-9 GHz
Directivity (dB)	45 / 52 / 52 / 50.5 / 47
Source match (dB)	36 / 44 / 44 / 39 / 34
Load match (dB)	39 / 47 / 47 / 44 / 40 Options And Accessories (family) 00A / 00F / 00M connector configurations; M0F mixed connectors; UK6 commercial cal with data; 1A7 / A6J accredited cal options; mixed Type-N or 7-16 port options on related 8509x models

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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Reflection tracking (+/- dB): 0.1 / 0.03 / 0.04 / 0.05 / 0.07
Transmission tracking (+/- dB): approximately 0.08 / 0.04 / 0.06 / 0.07 / 0.12
Load match (dB): 39 / 47 / 47 / 44 / 40

Options And Accessories (family)
00A / 00F / 00M connector configurations; M0F mixed connectors; UK6 commercial cal with data; 1A7 / A6J accredited cal options; mixed Type-N or 7-16 port options on related 8509x models

Operational Notes
Torque 3.5 mm connectors to the published wrench setting. Keep connectors clean and inspect for bent female fingers before mating. Store the module with protective caps. Verify analyzer firmware supports ECal USB or the appropriate external interface before use. Omit sales prices from documentation.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.