

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85093B

The Agilent/Keysight 85093B is a 2-port Electronic Calibration (ECal) module operating from 300 kHz to 9 GHz with 3.5 mm RF connectors. It is designed to provide fast, highly accurate, and NIST-traceable vector network analyzer calibrations with reduced connector wear. Unlike traditional manual calibration kits, the 85093B performs a full 2-port calibration with a single connection and uses reliable solid-state switching under direct USB control from a PNA series network analyzer or via PC control for legacy systems.

SPECIFICATIONS

General

Interfaces	USB
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Physical

Power Supply	USB powered
Operating Temperature	15 °C to 35 °C °C
Dimensions (W×H×D)	121 mm × 21 mm × 84 mm mm
Weight	0.275 kg kg

General Specifications

Frequency Range	300 kHz to 9 GHz
Nominal Impedance	50 Ω
Connector Type	3.5 mm
Number of Ports	2
Connector Gender Options	Option 00F (Female-Female), Option 00M (Male-Male), Option 00A (Male-Female)
Calibration Type	Electronic (ECal)
Calibration Traceability	NIST traceable

Control & Interfaces

Direct Control Interface	USB (direct control with PNA Series)
Legacy Analyzer Support	Agilent 8753, 8720, or 8510 systems via PC control
Supported Operating Systems (Legacy)	Windows 95, Windows NT 4.0

Performance Features

Switching Technology	Solid-state switching
Calibration Speed Benefit	Takes less than half the time and number of connections compared to mechanical calibration
Calibration Capabilities	Full 2-port calibration with a single connection
Device Calibration Type	Straight-forward non-insertable device calibration

Environmental

Specification Temperature Range	20 °C to 30 °C
Storage Temperature	-40 °C to +70 °C
Relative Humidity	Up to 95% at 40 °C (non-condensing)

RF Specifications

Maximum Input Power	+20 dBm
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Compatibility

Supported Network Analyzers	Keysight PNA Series, ENA Series, and legacy network analyzers (via 85097B interface kit)
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Configuration

Connector Configuration Options	Option 00F (female-female), Option 00M (male-male), Option 00A (male-female)
Calibration Certificate Options	Option UK6 (commercial calibration certificate with test data), Option 1A7 (ISO 17025 compliant calibration), Option A6J (ANSI Z540 compliant calibration)

TECHNOLOGY

Electronic Calibration (ECal)

APPLICATIONS

Vector Network Analyzer (VNA) Calibration

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.