

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N4692A

The Keysight N4692A is a high-performance, 2-port microwave Electronic Calibration (ECal) module operating from 10 MHz to 40 GHz with 2.92 mm connectors. It provides fast, highly accurate, and repeatable vector network analyzer calibrations, greatly reducing the time and potential errors associated with traditional mechanical calibration kits.

SPECIFICATIONS

General

Interfaces	USB 2.0
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Physical

Power Supply	USB-powered (+5 VDC)
Operating Temperature	15 °C to 35 °C °C
Dimensions (W×H×D)	60.1 mm × 21.3 mm × 111.8 mm mm
Weight	0.29 kg
Recommended Connector Torque	90 N-cm (8 lb-in)

RF & Port Specifications

Frequency Range	10 MHz to 40 GHz
Number of Ports	2
Port Connector Type	2.92 mm
Nominal Impedance	50 Ω
Connector Gender Configurations	Option 00A (male-female), Option 00F (female-female), Option 00M (male-male)

Power & Electrical Limits

Maximum RF Input Power (Damage Level)	+20 dBm
Maximum DC Voltage Limit	0 V

Compatibility & Integration

Supported Network Analyzers	Keysight / Agilent PNA and ENA Series Vector Network Analyzers
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Environmental & Compliance

Error-Corrected Operating Temperature Range	20 °C to 30 °C
Storage Temperature Range	-40 °C to +70 °C

Accessories, Calibration & Support

Standard Calibration Interval	1 year
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General Specifications

Warm-up Time	15 minutes
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Error-Corrected Performance

Directivity (10 MHz to 2 GHz)	45 dB
Source Match (10 MHz to 2 GHz)	36 dB
Load Match (10 MHz to 2 GHz)	41 dB
Directivity (2 to 20 GHz)	42 dB
Source Match (2 to 20 GHz)	35 dB
Load Match (2 to 20 GHz)	38 dB
Directivity (20 to 40 GHz)	38 dB
Source Match (20 to 40 GHz)	32 dB
Load Match (20 to 40 GHz)	34 dB

Ordering Information

Calibration Certificate Options	Option 1A7 (ISO 17025 compliant), Option A6J (ANSI Z540 compliant)
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Performance

Reflection Tracking (10 MHz to 2 GHz)	±0.08 dB
Reflection Tracking (2 to 20 GHz)	±0.08 dB
Reflection Tracking (20 to 40 GHz)	±0.14 dB
Transmission Tracking (10 MHz to 2 GHz)	±0.08 dB
Transmission Tracking (2 to 20 GHz)	±0.12 dB
Transmission Tracking (20 to 40 GHz)	±0.20 dB

TECHNOLOGY

Electronic Calibration (ECal)

APPLICATIONS

Vector Network Analyzer 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.