

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85096C

The Keysight Technologies (formerly Agilent) 85096C is a 2-port RF Electronic Calibration (ECal) Module operating from 300 kHz to 3 GHz. Designed for vector network analyzers (VNAs), it features Type-N 75-ohm connectors and provides a fast, repeatable, and single-connection calibration method to reduce operator error and connector wear compared to mechanical calibration kits.

SPECIFICATIONS

General

Interfaces	USB
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Physical

Power Supply	USB bus powered (+5 VDC)
Operating Temperature	15 °C to 40 °C °C
Dimensions (W×H×D)	48 x 21 x 121 mm mm
Weight	0.265 kg kg

RF & Electrical Performance

Frequency Range	300 kHz to 3 GHz
Nominal Impedance	75 Ω
Number of Ports	2
Connector Type	Type-N (75 Ω)
Maximum Input Power	+20 dBm

Environmental Specifications

Calibrated Performance Temperature Range	20 °C to 30 °C
Storage Temperature Range	-40 °C to +70 °C

Residual Uncertainties (Typical)

Directivity (300 kHz to 1.3 GHz)	45 dB
Source Match (300 kHz to 1.3 GHz)	36 dB
Load Match (300 kHz to 1.3 GHz)	37 dB
Reflection Tracking (300 kHz to 1.3 GHz)	±0.06 dB
Transmission Tracking (300 kHz to 1.3 GHz)	±0.08 dB
Directivity (1.3 GHz to 3.0 GHz)	40 dB
Source Match (1.3 GHz to 3.0 GHz)	32 dB
Load Match (1.3 GHz to 3.0 GHz)	33 dB
Reflection Tracking (1.3 GHz to 3.0 GHz)	±0.10 dB
Transmission Tracking (1.3 GHz to 3.0 GHz)	±0.12 dB

Ordering & Configurations

Option 00F Connector Configuration	Both connectors female
Option 00M Connector Configuration	Both connectors male
Option 00A Connector Configuration	One male, one female connector
Option UK6 Calibration	Commercial calibration certificate with test data
Option 1A7 Calibration	ISO 17025 compliant calibration
Option A6J Calibration	ANSI Z540 compliant calibration

Environmental

Operating Humidity	20% to 80% RH (non-condensing)
Storage Humidity	5% to 95% RH (non-condensing)
Operating Altitude	0 to 4,600 m (15,000 ft)
Storage Altitude	0 to 15,240 m (50,000 ft)

Calibration

Recommended Calibration Cycle	1 year
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Interfaces

USB Compatibility	USB 2.0
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Physical Characteristics

Recommended Connector Torque	1.3 N-m (12 in-lb)
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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.