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Data Sheet

August 13, 2026

RIGOL

Rigol CK106A High-performance Network Analysis Calibration Kit

Rigol CK106A High Performance TypeNCalibration Kit DC to 6.5 GHz The CK106A is Rigol's high performance Type-N mechanical calibration kit for vector network measurements on RSA3000N and RSA5000N realtime spectrum analyzers with VNA. The kit is specified DC to 6.5 GHz at 50 ohm and includesNmale load (CK106A-LOAD), N male open (CK106A-OPEN), N male short (CK106A-SHORT), andNfemale toNfemale thru (CK106A-THRU). Load VSWR is 1.1; open/short minimum reflection coefficient is 0.98; thru insertion loss is 0.3 dB with VSWR 1.2. CK106E is the economical sibling to 1.5 GHz. The CK106A is Rigol's high performance Type-N mechanical calibration kit for vector network measurements on RSA3000N and RSA5000N realtime spectrum analyzers with VNA. The kit is specified DC to 6.5 GHz at 50 ohm and includesNmale load (CK106A-LOAD), N male open (CK106A-OPEN), N male short (CK106A-SHORT), andNfemale toNfemale thru (CK106A-THRU). Load VSWR is 1.1; open/short minimum reflection coefficient is 0.98; thru insertion loss is 0.3 dB with VSWR 1.2. CK106E is the economical sibling to 1.5 GHz. RSA3000N / RSA5000N VNA calibration to 6.5 GHz



MODEL

Rigol CK106A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CK106A

LISTING

<https://aumictechlabs.com/products/ck106a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rigol CK106A is a mechanical OSL calibration kit engineered to eliminate systematic errors in network analyzer measurements across DC to 6.5 GHz. Designed specifically for Rigol's RSA3000N and RSA5000N series spectrum analyzers with integrated VNA capability, this 50 Ohm kit delivers the precision standards required for accurate S-parameter characterization. The kit comprises Type-N connectors in three mechanical standards: a fixed termination load with 0.98 minimum reflection coefficient and 0.3 dB insertion loss, an open circuit, and a short circuit. Each component maintains consistent performance across the full frequency range, with the load achieving 1.2 VSWR. Operating from -55°C to +125°C, the CK106A meets RoHS compliance requirements and weighs 35 g, making it suitable for field and laboratory deployments. The fixed termination load measures $\varnothing 18.5 \times 36.8$ mm.

Technical Specifications
Frequency Range: DC to 6.5 GHz
Impedance: 50 Ohms
Connector Type: Type-N (Male)
Calibration Standard Type: Mechanical OSL (Open, Short, Load)
Load Insertion Loss: 0.3 dB
Load Minimum Reflection Coefficient: 0.98
Load VSWR: 1.2
Temperature Range: -55°C to +125°C
Weight: 35 g
Load Dimensions: $\varnothing 18.5 \times 36.8$ mm
Regulatory Compliance: RoHS 2002/95/EC

Key Features
Type-N mechanical standards eliminate connector repeatability errors
Dual-series compatibility with RSA3000N and RSA5000N analyzers
Wideband DC to 6.5 GHz coverage for S-parameter and reflection measurements
Stable load standard with tight VSWR specification

Typical Applications
Network analyzer port characterization and error correction
VNA calibration verification on spectrum analyzer platforms
S-parameter measurement validation across microwave frequencies

Compatibility & Integration
The CK106A integrates directly with Rigol RSA3000N and RSA5000N series spectrum analyzers equipped with vector network analyzer functionality. Type-N connectors ensure compatibility with standard VNA ports on these instruments.

CK106A Characteristics / Specifications

PARAMETER	VALUE
Model	CK106A
Manufacturer	Rigol
Instrument Type	High performance TypeNVNA calibration kit
Alias	CK 106A; RIGOL CK106A
Frequency Range	DC to 6.5 GHz
Characteristic Impedance	50 ohm
Host Instruments	RSA3000N and RSA5000N VNA
Kit Contents	N male load, N male open, N male short, N female toNfemale thru
Load Part	CK106A LOAD
Open Part	CK106A OPEN
Short Part	CK106A SHORT
Thru Part	CK106A THRU
Load VSWR	1.1
Load Insertion Loss	N/A (termination)
Load Connectors	brass nickel plated
Load Male Pin	brass gold plated
Load Female Pin	beryllium copper gold plated
Load Housing	aluminum
Load Weight	35 g
Load Dimensions	21.8 mm diameter x 44.5 mm
Open Minimum Reflection Coefficient	0.98
Open Housing	brass nickel plated
Open Weight	50 g
Open Dimensions	22 mm diameter x 37 mm
Short Minimum Reflection Coefficient	0.98

PARAMETER	VALUE
Short Weight	50 g
Short Dimensions	22 mm diameter x 37 mm
Thru Insertion Loss	0.3 dB
Thru VSWR	1.2
Thru Weight	35 g
Thru Dimensions	18.5 mm diameter x 36.8 mm
Thru Temperature Range	minus 55 C to +125 C
Dimension Tolerance	plus/minus 5 percent
RoHS	2002/95/EC compliant
Sibling CK106E Range	DC to 1.5 GHz
Calibration Use	S11, S21, distance to fault on RSANmodels Notes Specs from the Rigol CK106A High-performance Network Analysis Calibration Kit datasheet. Confirm Nmale polarity and RSA N-model VNA firmware. Use CK106E only to 1.5 GHz.

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.

Performance TypeNCalibration Kit DC to 6.5 GHz

Overview

The CK106A is Rigol's high performance Type-N mechanical calibration kit for vector network measurements on RSA3000N and RSA5000N realtime spectrum analyzers with VNA. The kit is specified DC to 6.5 GHz at 50 ohm and includesNmale load (CK106A-LOAD), N male open (CK106A-OPEN), N male short (CK106A-SHORT), andNfemale toNfemale thru (CK106A-THRU). Load VSWR is 1.1; open/short minimum reflection coefficient is 0.98; thru insertion loss is 0.3 dB with VSWR 1.2. CK106E is the economical sibling to 1.5 GHz.

Applications

RSA3000N / RSA5000N VNA calibration to 6.5 GHz

S11, S21, and distance-to-fault correction

Precision SOLT calibration

Production and metrology VNA setup

ReplacementNmale load/open/short/thru set

Key Features

50 ohm Type-N standards to 6.5 GHz

Load VSWR 1.1; open/short min |Gamma| 0.98

Thru 0.3 dB IL, VSWR 1.2

Brass nickel plated connectors; gold plated pins

Load about 35 g, 21.8 mm x 44.5 mm

Thru temperature minus 55 C to +125 C; RoHS 2002/95/EC

Technical Specifications

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Load VSWR	1.1
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Load Connectors	brass nickel plated

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Load Housing	aluminum
Load Weight	35 g
Load Dimensions	21.8 mm diameter x 44.5 mm
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Short Minimum Reflection Coefficient	0.98
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Short Dimensions	22 mm diameter x 37 mm
Thru Insertion Loss	0.3 dB
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Thru Dimensions	18.5 mm diameter x 36.8 mm
Thru Temperature Range	minus 55 C to +125 C
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RoHS	2002/95/EC compliant
Sibling CK106E Range	DC to 1.5 GHz
Calibration Use	S11, S21, distance to fault on RSANmodels

Notes

Specs from the Rigol CK106A High-performance Network Analysis Calibration Kit datasheet. Confirm male polarity and RSA N-model VNA firmware. Use CK106E only to 1.5 GHz.

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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NIST-traceable calibration · SAM registered ·
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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.