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Data Sheet

August 13, 2026

ANRITSU

Anritsu 36804B-15M Microstrip Calibration Kit, DC to 40 GHz

Anritsu 36804B-15M,"Microstrip calibration kit offering performance from DC to 40 GHz. Provides essential standards for accurate VNA calibration in microwave PCB testing, enabling reliable and consistent high-frequency measurements in both lab and field."



MODEL

Anritsu 36804B-15M

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

36804B-15M

LISTING

<https://aumictechlabs.com/products/36804b-15m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 36804B-15M is a microstrip calibration kit engineered for Vector Network Analyzer (VNA) calibration in microwave printed circuit board testing. It delivers the essential calibration standards - open, short, load, and transmission - required for accurate, repeatable on-substrate measurements of microstrip and coplanar waveguide devices from DC to 40 GHz. Technical Specifications Frequency Range: DC to 40 GHz Substrate Thickness: Optimized for 15 mil (0.38 mm) substrates; compatible test fixtures accommodate 0.13 mm to 1.9 mm (5 mil to 75 mil) Line Offset Accommodation: Up to 12.7 mm (0.5 inches) Maximum Substrate Length: 50.08 mm (2 inches) Repeatability: 0.1 dB (via spring-loaded fixture jaws) Dispersion Compensation: Enables direct microstrip dispersion compensation for phase-shift linearization across frequency Calibration Coefficients: Provided on label inside top cover under foam padding Key Features

Spring-loaded jaw mechanism ensures consistent 0.1 dB repeatability across repeated measurements Flexible line offset range eliminates the need for custom fixtures in most applications Direct dispersion compensation capability addresses non-linear phase shift behavior in microstrip transmission media Individual calibration coefficients supplied for traceability and measurement confidence Typical Applications On-substrate characterization of microstrip transmission lines and devices Coplanar waveguide (CPW) component measurement and validation PCB-integrated circuit and filter testing High-frequency device S-parameter acquisition Compatibility & Integration This calibration kit works with use with the Anritsu 3680 Series Universal Test Fixtures, including models 3680-20, 3680K, and 3680V. The fixture architecture accommodates both microstrip and CPW measurement configurations through interchangeable jaw sets, enabling multi-technology on-board testing without dedicated hardware changes.

Features & description

From manufacturer datasheet

Features

- 15 mil (0.38 mm) microstrip substrate thickness
- Frequency coverage 0.04 GHz to 30 GHz
- OSL and LRL calibration components included
- Beatty standard mismatch for verification
- 20 dB offset termination verification substrate
- Line lengths supplied as physical lengths

Applications

- Microstrip OSL and LRL calibration in Anritsu 3680 UTF
- In-fixture verification with Beatty and offset termination standards
- On-wafer-adjacent substrate device S-parameter characterization
- Production and R&D microstrip DUT measurement to 30 GHz

36804B15M Characteristics / Specifications

PARAMETER	VALUE
Model	36804B-15M
Manufacturer	Anritsu
Instrument Type	Microstrip Calibration Verification Kit
Alias	36804B-15M; 36804-15M; 15 mil UTF cal kit
Substrate thickness	0.38 mm (15 mil)
Substrate technology	microstrip
Frequency range minimum	0.04 GHz
Frequency range maximum	30 GHz
Calibration methods	OSL and LRL
Verification standards	Beatty mismatch and offset termination
Offset termination value	20 dB
Line length definition	physical lengths not electrical
Related 10 mil kit	36804B-10M DC to 50 GHz
Related 25 mil kit	36804B-25M DC to 15 GHz
Related CPW kit	36804-25C DC to 20 GHz
Host fixture family	3680 Series Universal Test Fixture
Compatible fixture 20 GHz	3680-20
Compatible fixture 40 GHz	3680K
Compatible fixture 60 GHz	3680V
Directivity after cal 0.04 GHz	greater than 28 dB
Source match after cal 0.04 GHz	greater than 24 dB
Load match after cal 0.04 GHz	greater than 28 dB
Directivity after cal 2.0 GHz	greater than 34 dB
Source match after cal 2.0 GHz	greater than 32 dB
Load match after cal 2.0 GHz	greater than 34 dB

PARAMETER	VALUE
Directivity after cal 20 GHz	greater than 28 dB
Source match after cal 20 GHz	greater than 32 dB
Load match after cal 20 GHz	greater than 28 dB
Directivity after cal 30 GHz	greater than 28 dB
Source match after cal 30 GHz	greater than 26 dB
Load match after cal 30 GHz	greater than 28 dB
Operating temperature UTF kits	-20 C to 70 C
Operating temperature	UTF kits: -20 C to 70 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	UTF kits: -20 C to 70 C
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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	
Specifications	
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Instrument Type	Microstrip Calibration Verification Kit
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Compatible fixture 60 GHz	3680V
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Source match after cal 0.04 GHz	greater than 24 dB
Load match after cal 0.04 GHz	greater than 28 dB
Directivity after cal 2.0 GHz	greater than 34 dB
Source match after cal 2.0 GHz	greater than 32 dB
Load match after cal 2.0 GHz	greater than 34 dB
Directivity after cal 20 GHz	greater than 28 dB

PARAMETER	VALUE
Source match after cal 20 GHz	greater than 32 dB
Load match after cal 20 GHz	greater than 28 dB
Directivity after cal 30 GHz	greater than 28 dB
Source match after cal 30 GHz	greater than 26 dB
Load match after cal 30 GHz	greater than 28 dB
Operating temperature UTF kits	-20 C to 70 C

Option 1: adds verification data

Notes

Specs from Anritsu 3680 Series Universal Test Fixture technical data sheet for 36804B-15M (0.04-30 GHz, 15 mil microstrip). Confirm substrate kit completeness and UTF model (3680-20/K/V) pairing.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.