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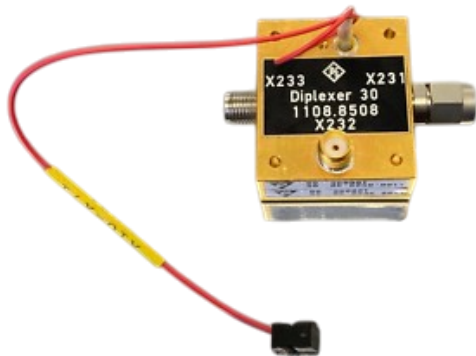
Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde and Schwarz 1108.8508.30 SMIQ/SME Series Attenuator/Module

Rohde & Schwarz 1108.8508.30 SMIQ/SME Series Attenuator/Modulator Module Part number 1108.8508.30 is an internal RF output attenuator/modulator assembly used in Rohde & Schwarz SMIQ vector signal generators and related SME analog generators. It is a service spare, not a standalone benchtop instrument. Electrical performance is that of the host SMIQ/SME RF output: mechanical step attenuator plus electronic ALC, 50 ohm, overload protection, and analog/vector modulation path through the output chain. A related SMIQ attenuator spare is 1008.6885.02; confirm the exact board revision against the host service manual. Part number 1108.8508.30 is an internal RF output attenuator/modulator assembly used in Rohde & Schwarz SMIQ vector signal generators and related SME analog generators. It is a service spare, not a standalone benchtop instrument. Electrical performance is that of the host SMIQ/SME RF output: mechanical step attenuator plus electronic ALC, 50 ohm, overload protection, and analog/vector modulation path through the output chain. A related SMIQ attenuator spare is 1008.6885.02; confirm the exact board revision against the host service manual. Repair or rebuild of SMIQ02B/03B/04B/06B (and ATE) RF output level control; SME family output attenuator replacement; restoration of mechanical/electronic attenuator modes (AUTO, FIXED, ELECTRONIC) used in production level loops.

**MODEL**

Rohde & Schwarz
1108.8508.30

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1108.8508.30

LISTING

<https://aumictechlabs.com/products/1108-8508-30-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz 1108.8508.30 is an internal component module engineered for integration into Rohde & Schwarz electronic test and measurement systems. This precision module upholds the accuracy and reliability that define Rohde & Schwarz instrumentation, operating within host equipment designed to stringent quality standards. Technical Specifications Manufacturer: Rohde & Schwarz Model: 1108.8508.30 Component Type: Module for electronic test and measurement equipment Construction: Built to rigorous Rohde & Schwarz quality standards Power Requirements: Dependent on host equipment Input Impedance: Systems support switchable impedance options including 50 Ω and 1 M Ω Key Features Designed as a critical functional element within compatible Rohde & Schwarz test systems Maintains system integrity and measurement precision in sophisticated test setups Engineered for dependable operation across Rohde & Schwarz instrumentation platforms Typical Applications The 1108.8508.30 is an integral component within Rohde & Schwarz electronic test and measurement infrastructure, supporting accurate signal acquisition and system performance across diverse measurement scenarios. Compatibility & Integration This module is specifically designed for integration within compatible Rohde & Schwarz electronic test and measurement systems. Integration depends on the host equipment design. Rohde & Schwarz systems typically feature multiple interface options including Ethernet, USB, IEEE-488 (GPIB), RS-232, HDMI, DVI, and SD Card slots - though specific interface availability is determined by the integrating equipment.

1108 Characteristics / Specifications

PARAMETER	VALUE
Not a user instrument	requires host firmware, ALC, and RF deck Technical Specifications
Model	1108.8508.30
Manufacturer	Rohde & Schwarz
Instrument Type	Internal RF Attenuator / Output Modulator Module (SMIQ/SME spare)
Alias	1108.8508.30; SMIQ attenuator; SME attenuator module
Host Families	SMIQ02B/03B/04B/06B/06ATE and SME series
Host Frequency SMIQ02B	300 kHz to 2.2 GHz
Host Frequency SMIQ03B	300 kHz to 3.3 GHz
Host Frequency SMIQ04B	300 kHz to 4.4 GHz
Host Frequency SMIQ06B	300 kHz to 6.4 GHz
Host Frequency Resolution	0.1 Hz (CW, analog, attenuator AUTO)
Host Level Range SMIQ02B/03B	minus 144 dBm to plus 13 dBm PEP
Host Level Range SMIQ04B/06B	minus 144 dBm to plus 10 dBm PEP (overrange to about plus 16 dBm class)
Host Level Resolution	0.1 dB or 0.01 dB
Host Level Uncertainty less than or equal to 2.5 GHz	less than 0.5 dB (levels greater than minus 127 dBm, CW)
Host Level Uncertainty 2.5 to 4 GHz	less than 0.9 dB
Host Level Uncertainty 4 to 6.4 GHz	less than 1.2 dB
Output Impedance	50 ohm VSWR less than or equal to 2.2 GHz at max level less than or equal to minus 3 dBm: less than 1.5 typically / less than 1.8 max class
VSWR 2.2 to 6.4 GHz	less than 1.8 typically / less than 2.0 max class
Level Setting Time Mechanical Attenuator	less than 25 ms (to 0.1 dB)
Level Setting Time Electronic	less than 2.5 ms
Noninterrupting FIXED Mode Range	greater than 20 dB
Electronic Mode Range	greater than 80 dB (about 90 dB in production notes)

PARAMETER	VALUE
LEV ATT External Attenuation Range	0 dB to 70 dB
LEV ATT Additional Error to 35 dB	less than 1 dB
LEV ATT Additional Error to 70 dB	less than 1.5 dB
Max Reverse RF SMIQ02B/03B	50 W
Max Reverse RF SMIQ04B/06B	1 W
Max DC Voltage SMIQ02B/03B	35 V
Max DC Voltage SMIQ04B/06B	0 V
I/Q RF Bandwidth Host	12 MHz class (internal coder path)
Related Spare	1008.6885.02 SMIQ attenuator (distinct P/N)
Form Factor	Internal plug in assembly (not a standalone box) Notes Numeric RF specs are those of the host SMIQ data sheet for the output attenuator/ALC path; the 1108.8508.30 board itself has no separate public user datasheet. Identify the host model (02B vs 06B changes reverse power and DC rating) and do not treat this spare as a complete generator. Confirm P/N 1108.8508.30 versus 1008.6885.02 on the physical assembly.
Bandwidth	Host: 12 MHz class (internal coder path)
Attenuation	Range: 0 dB to 70 dB

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 is that of the host SMIQ/SME RF output: mechanical step attenuator plus electronic ALC, 50 ohm, overload protection, and analog/vector modulation path through the output chain. A related SMIQ attenuator spare is 1008.6885.02; confirm the exact board revision against the host service manual.

Applications
Repair or rebuild of SMIQ02B/03B/04B/06B (and ATE) RF output level control; SME family output attenuator replacement; restoration of mechanical/electronic attenuator modes (AUTO, FIXED, ELECTRONIC) used in production level loops.

Key Features
Internal mechanical RF step attenuator for the SMIQ/SME output chain
Electronic (wear reducing) level setting of typically greater than 80 dB without switching the mechanical stack
Host attenuator modes AUTO, FIXED (non interrupting, greater than 20 dB), and ELECTRONIC
Works with host ALC for CW, analog, and I/Q modulated PEP leveling
Overload protection of the host RF output against reverse RF and DC
Not a user instrument: requires host firmware, ALC, and RF deck

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	1108.8508.30
Manufacturer	Rohde & Schwarz
Instrument Type	Internal RF Attenuator / Output Modulator Module (SMIQ/SME spare)
Alias	1108.8508.30; SMIQ attenuator; SME attenuator module
Host Families	SMIQ02B/03B/04B/06B/06ATE and SME series
Host Frequency SMIQ02B	300 kHz to 2.2 GHz
Host Frequency SMIQ03B	300 kHz to 3.3 GHz
Host Frequency SMIQ04B	300 kHz to 4.4 GHz
Host Frequency SMIQ06B	300 kHz to 6.4 GHz
Host Frequency Resolution	0.1 Hz (CW, analog, attenuator AUTO)
Host Level Range SMIQ02B/03B	minus 144 dBm to plus 13 dBm PEP
Host Level Range SMIQ04B/06B	minus 144 dBm to plus 10 dBm PEP (overrange to about plus 16 dBm class)
Host Level Resolution	0.1 dB or 0.01 dB

Host Level Uncertainty
less than or equal to 2.5 GHz: less than 0.5 dB (levels greater than minus 127 dBm, CW)

Specifications

PARAMETER	VALUE
Host Level Uncertainty 2.5 to 4 GHz	less than 0.9 dB
Host Level Uncertainty 4 to 6.4 GHz	less than 1.2 dB
Output Impedance	50 ohm

VSWRfless than or equal to 2.2 GHz at max level less than or equal to minus 3 dBm: less than 1.5 typically / less than 1.8 max class

Specifications

PARAMETER	VALUE
VSWR 2.2 to 6.4 GHz	less than 1.8 typically / less than 2.0 max class
Level Setting Time Mechanical Attenuator	less than 25 ms (to 0.1 dB)
Level Setting Time Electronic	less than 2.5 ms
Noninterrupting FIXED Mode Range	greater than 20 dB
Electronic Mode Range	greater than 80 dB (about 90 dB in production notes)
LEV ATT External Attenuation Range	0 dB to 70 dB
LEV ATT Additional Error to 35 dB	less than 1 dB
LEV ATT Additional Error to 70 dB	less than 1.5 dB
Max Reverse RF SMIQ02B/03B	50 W
Max Reverse RF SMIQ04B/06B	1 W
Max DC Voltage SMIQ02B/03B	35 V
Max DC Voltage SMIQ04B/06B	0 V
I/Q RF Bandwidth Host	12 MHz class (internal coder path)
Related Spare	1008.6885.02 SMIQ attenuator (distinct P/N)
Form Factor	Internal plug in assembly (notastandalone box)

Notes

Numeric RF specs are those of the host SMIQ data sheet for the output attenuator/ALC path; the 1108.8508.30 board itself has no separate public user datasheet. Identify the host model (02B vs 06B changes reverse power and DC rating) and do not treat this spare asacomplete generator. Confirm P/N 1108.8508.30 versus 1008.6885.02 on the physical assembly.

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 ·
30-day returns
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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.