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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESW26 EMI Test Receiver, 1Hz to 26.5GHz

Rohde & Schwarz ESW26 EMI Test Receiver 1 Hz to 26.5 GHz The R&S ESW26 is the 26.5 GHz member of the ESW EMI test receiver family. Input 1 covers 1 Hz to 26.5 GHz DC-coupled or 10 MHz to 26.5 GHz AC-coupled; input 2 covers 1 Hz to 1 GHz. Frequency resolution is 0.01 Hz. Twenty-one preselection filters and optional 30 dB LNA support CISPR 16-1-1 measurements with FFT time-domain scan. Analyzer RBW is 1 Hz to 10 MHz; EMI filters include 200 Hz, 9 kHz, 120 kHz, and 1 MHz. Parallel CISPR detectors and APD are standard. External mixers (B21) are available on ESW26/44. The R&S ESW26 is the 26.5 GHz member of the ESW EMI test receiver family. Input 1 covers 1 Hz to 26.5 GHz DC-coupled or 10 MHz to 26.5 GHz AC-coupled; input 2 covers 1 Hz to 1 GHz. Frequency resolution is 0.01 Hz. Twenty-one preselection filters and optional 30 dB LNA support CISPR 16-1-1 measurements with FFT time-domain scan. Analyzer RBW is 1 Hz to 10 MHz; EMI filters include 200 Hz, 9 kHz, 120 kHz, and 1 MHz. Parallel CISPR detectors and APD are standard. External mixers (B21) are available on ESW26/44.



MODEL

Rohde & Schwarz ESW26

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ESW26

LISTING

<https://aumictechlabs.com/products/esw26-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz ESW26 is a precision EMI test receiver designed for electromagnetic compatibility compliance measurements from 1 Hz to 26.5 GHz. This instrument combines

exceptional dynamic range, high sensitivity, and low noise figure to detect weak EMI signals amid strong interference. The ESW26 executes automated compliance testing to CISPR, FCC, and MIL-STD standards while delivering real-time spectrum analysis, time domain analysis, and interference identification. Its selectable resolution bandwidth (1 Hz to 1 MHz) and video bandwidth (1 Hz to 10 MHz) enable precise signal characterization across demanding industrial and aerospace applications.

Technical Specifications

Frequency Range: 1 Hz to 26.5 GHz
Measurement Bandwidth: Up to 250 MHz
Resolution Bandwidth (RBW): 1 Hz to 1 MHz (1-3-10 steps)
Video Bandwidth (VBW): 1 Hz to 10 MHz (1-3-10 steps)
RF Input: Type N connector, 50 Ohm impedance
Power Supply: 100 V to 240 V AC, 50/60 Hz

Key Features

- Pre-selector filter rejects out-of-band signals for improved measurement accuracy
- Fast sweep speed enables efficient signal acquisition during transient events
- Automated test sequences support standardized compliance procedures with user-defined routines
- High-resolution color display visualizes measurement data clearly
- Customizable reporting templates generate compliance summaries and spectrum plots

Measurement Capabilities

- EMI compliance testing per CISPR, FCC, and MIL-STD standards
- Real-time spectrum analysis for transient and intermittent signal observation
- Time domain analysis and signal characterization functions
- Interference detection and identification

Compatibility & Integration

- Ethernet (RJ45) for remote control and data transfer
- USB ports for external storage and peripheral connection
- GPIB (IEEE 488.2) for legacy instrument integration
- External trigger input for measurement synchronization

Features & description

From manufacturer datasheet

Features

• FFT time-domain scan for CISPR bands; wideband extension up to 970 MHz class • Optional ESW-B4 OCXO (aging plus/minus 3e-8 per year) • Up to 200001 EMI sweep points; 100001 analyzer points • Touchscreen receiver with SCPI / LAN / GPIB • 1 dB compression about +15 dBm; level accuracy less than 0.4 dB class

Applications

• Full CISPR / EN / FCC / MIL EMI compliance to 26.5 GHz • Fast time-domain scan (ESW-B350 / B1000 options) • Spectrum analysis with high TOI (typ. 25 dBm class, preselection off) • Click-rate analysis (K59) and real-time (K55) • Microwave EMI with mixers where fitted

ESW26 Characteristics / Specifications

PARAMETER	VALUE
Model	ESW26
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver
Alias	ESW 26; R&S ESW26
Frequency Range Input 1 DC	1 Hz to 26.5 GHz
Frequency Range Input 1 AC	10 MHz to 26.5 GHz
Frequency Range Input 2 DC	1 Hz to 1 GHz
Frequency Range Input 2 AC	10 MHz to 1 GHz
Frequency Resolution	0.01 Hz
Reference Aging Standard	plus/minus 1e-7 per year
OCXO ESW B4 Aging	plus/minus 3e-8 per year
Preselection Filters	21
Analyzer RBW	1 Hz to 10 MHz, 1/2/3/5
EMI Filters	1 Hz, 10 Hz, 100 Hz, 200 Hz, 1 kHz, 9 kHz, 10 kHz, 100 kHz, 120 kHz, 1 MHz, 10 MHz
Video Bandwidths	1 Hz to 10 MHz
SSB Phase Noise at 10 kHz	less than minus 134 dBc (1 Hz), typ. minus 138 dBc
SSB Phase Noise at 1 MHz	less than minus 145 dBc (1 Hz), typ. minus 149 dBc
TOI 10 MHz to 3 GHz	greater than 20 dBm, typ. 25 dBm (preselection off)
DANL 1 MHz to 1 GHz Preamp On	minus 165 dBm, typ. minus 168 dBm (1 Hz)
Analyzer Display Range	noise floor to +30 dBm
Receiver Detectors	max 4 of PK, RMS, AV, QP, CISPR AV, RMS AV
EMI Sweep Points	101 to 200001
Analyzer Sweep Points	101 to 100001
APD Min Probability	1e-7
APD Max Acquisition	120 s

PARAMETER	VALUE
APD Bandwidths	200 Hz, 9 kHz, 120 kHz, 1 MHz
Frequency Counter Resolution	0.001 Hz
Receiver Noise 30 MHz to 1 GHz BW 120 kHz	less than 9 dBμV
Receiver Noise 1 to 3 GHz BW 1 MHz	less than 16 dBμV
Receiver Noise 25 to 26.5 GHz BW 1 MHz	less than 24 dBμV
Compression Point 1 dB	about +15 dBm
Level Accuracy Class	less than 0.4 dB
Sibling ESW8 Range	1 Hz to 8 GHz
Sibling ESW44 Range	1 Hz to 44 GHz
Mixer Option B	available on ESW26/44 (not ESW8) Notes Specs from the R&S ESW EMI Test Receiver specifications. Confirm B4 OCXO, B24 LNA, time-domain-scan hardware, B21 mixers, and K55/K59 licenses. This file is the 26.5 GHz ESW26.

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	
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PARAMETER	VALUE
Model	ESW26
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver
Alias	ESW 26; R&S ESW26
Frequency Range Input 1 DC	1 Hz to 26.5 GHz
Frequency Range Input 1 AC	10 MHz to 26.5 GHz
Frequency Range Input 2 DC	1 Hz to 1 GHz
Frequency Range Input 2 AC	10 MHz to 1 GHz
Frequency Resolution	0.01 Hz
Reference Aging Standard	plus/minus 1e-7 per year
OCXO ESW B4 Aging	plus/minus 3e-8 per year
Preselection Filters	21
Analyzer RBW	1 Hz to 10 MHz, 1/2/3/5
EMI Filters	1 Hz, 10 Hz, 100 Hz, 200 Hz, 1 kHz, 9 kHz, 10 kHz, 100 kHz, 120 kHz, 1 MHz, 10 MHz
Video Bandwidths	1 Hz to 10 MHz
SSB Phase Noise at 10 kHz	less than minus 134 dBc (1 Hz), typ. minus 138 dBc
SSB Phase Noise at 1 MHz	less than minus 145 dBc (1 Hz), typ. minus 149 dBc
TOI 10 MHz to 3 GHz	greater than 20 dBm, typ. 25 dBm (preselection off)
DANL 1 MHz to 1 GHz Preamp On: minus 165 dBm, typ. minus 168 dBm (1 Hz)	
Specifications	
PARAMETER	VALUE
Analyzer Display Range	noise floor to +30 dBm
Receiver Detectors	max 4 of PK, RMS, AV, QP, CISPR AV, RMS AV
EMI Sweep Points	101 to 200001
Analyzer Sweep Points	101 to 100001

PARAMETER	VALUE
APD Min Probability	1e-7
APD Max Acquisition	120 s
APD Bandwidths	200 Hz, 9 kHz, 120 kHz, 1 MHz
Frequency Counter Resolution	0.001 Hz

Receiver Noise 30 MHz to 1 GHz BW 120 kHz: less than 9 dBμV
Receiver Noise 1 to 3 GHz BW 1 MHz: less than 16 dBμV
Receiver Noise 25 to 26.5 GHz BW 1 MHz: less than 24 dBμV

Specifications

PARAMETER	VALUE
Compression Point 1 dB	about +15 dBm
Level Accuracy Class	less than 0.4 dB
Sibling ESW8 Range	1 Hz to 8 GHz
Sibling ESW44 Range	1 Hz to 44 GHz
Mixer Option B21	available on ESW26/44 (not ESW8)

Notes
Specs from the R&S ESW EMI Test Receiver specifications. Confirm B4 OCXO, B24 LNA, time-domain-scan hardware, B21 mixers, and K55/K59 licenses. This file is the 26.5 GHz ESW26.

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.