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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde and Schwarz ESVP52 Test Receiver, 20 MHz to 1300 MHz

Rohde & Schwarz ESVP52 Test Receiver 20 MHz to 1300 MHz The R&S ESVP (order family BN 354.3000.52, commonly listed as ESVP52) is a double-conversion measuring / EMI test receiver covering 20 MHz to 1300 MHz (a 20 MHz to 1000 MHz sibling exists as BN 354.3000.54). It measures AM DSB, SSB, pulse-modulated, and FM signals plus narrowband and broadband interference. High overload immunity and measurement dynamics support selective voltage and four-terminal measurements in automatic racks as well as radio monitoring and EMC work. The R&S ESVP (order family BN 354.3000.52, commonly listed as ESVP52) is a double-conversion measuring / EMI test receiver covering 20 MHz to 1300 MHz (a 20 MHz to 1000 MHz sibling exists as BN 354.3000.54). It measures AM DSB, SSB, pulse-modulated, and FM signals plus narrowband and broadband interference. High overload immunity and measurement dynamics support selective voltage and four-terminal measurements in automatic racks as well as radio monitoring and EMC work.



MODEL

Rohde & Schwarz ESVP52

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ESVP52

LISTING

<https://aumictechlabs.com/products/esvp52-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ESVP52 is a programmable test receiver for RF and microwave measurements across signal monitoring, interference analysis, EMC testing, and component

validation in laboratory and production environments. Operating from 20 MHz to 1300 MHz with a measurement range of -20 dB μ V to $+137$ dB μ V, the instrument delivers selective voltage and two-port measurements essential for automated test systems. Its dual-conversion architecture employs 1st intermediate frequencies of 810.7/310.7 MHz and a 2nd IF of 10.7 MHz, with selectable bandwidths of 7.5 kHz, 12 kHz, 120 kHz, and 1 MHz. Tuning resolution spans 100 kHz, 10 kHz, or 1 kHz steps for precise frequency definition.

Technical Specifications

Frequency Range: 20 MHz to 1300 MHz
Measurement Range: -20 dB μ V to $+137$ dB μ V
Demodulation Modes: AM wide, AM narrow, FM wide, FM narrow
Intermediate Frequencies: 1st IF 810.7/310.7 MHz; 2nd IF 10.7 MHz
Selectable Bandwidths: 7.5 kHz, 12 kHz, 120 kHz, 1 MHz
Tuning Steps: 100 kHz, 10 kHz, or 1 kHz increments
RF Preamplifier: 10 dB (optional) for low-noise, low-distortion operation
Calibration Generator Output: 90 dB μ V ± 0.3 dB into 50 Ω

Key Features

- Wide dynamic range and high overload capacity
- Automatic linearity testing distinguishes device non-linearity from test-item artifacts
- Oven-controlled crystal oscillator option (ESVP-B1) reduces frequency measurement error for radiomonitoring
- IEEE 488 (IEC/IEEE Bus) interface for remote control and ATE integration
- AC supply or 24 V battery operation

Typical Applications

- Selective voltage and two-port measurements
- RFI and interference measurements per CISPR, VDE, FCC, MIL, and VG standards
- Field-strength measurements with test antennas
- Adjacent-channel power, harmonics, spurious signals, intermodulation, and cross-modulation analysis
- Noise figure determination
- Screening effectiveness of cables and connectors
- Return loss measurement of two-terminal networks and two-ports

Compatibility & Integration

Full operational and command-set compatibility with ESH 3 (9 kHz to 30 MHz) test receiver. Integrates into automatic test systems via IEEE 488 interface.

Features & description

From manufacturer datasheet

Features

- Double conversion with 1st IF 810.7 MHz below 520 MHz and 310.7 MHz above 520 MHz; 2nd IF 10.7 MHz
- Ten tracking input filters and a switchable about +10 dB preamplifier between the RF attenuator and input filter
- Demodulation A0, A1, A3, A3J LSB/USB, F3
- Eight-digit LED frequency display
- IEC bus programmability for ATE
- AC line or 24 V DC operation

Applications

- CISPR-class EMI and disturbance measurements in VHF/UHF
- Selective RF voltage and four-pole measurements
- Radio monitoring and field-strength work with suitable antennas
- Automatic test systems via IEC bus
- AM / FM / SSB demodulation of communications signals to 1.3 GHz

ESVP52 Characteristics / Specifications

PARAMETER	VALUE
Model	ESVP52 (BN 354.3000.52)
Manufacturer	Rohde & Schwarz
Instrument Type	Measuring / EMI test receiver
Alias	ESVP; ESVP 52; ESVP 354.3000.52
Frequency Range	20 MHz to 1300 MHz (BN 354.3000.52)
Sibling Frequency Range	20 MHz to 1000 MHz (BN 354.3000.54)
Frequency Resolution	1 kHz; 100 Hz in SSB
Frequency Error	less than 5e-6 (max 5 kHz at 1 GHz)
RF Input Impedance	50 ohm
RF Input Connector	N female
Preamplifier Gain	about +10 dB, switchable
Input Filters	10 tracking filters
IF First Below 520 MHz	810.7 MHz
IF First Above 520 MHz	310.7 MHz
IF Second	10.7 MHz
Conversion Type	double superhet
Demodulation Modes	A0, A1, A3, A3J LSB/USB, F3
Display Type	8 digit LED frequency display
Typical Oscillator Leakage fo	typ. 40 dBμV
Typical Oscillator Leakage 2fo	typ. 50 dBμV for 1.02 to 1.3 GHz
Mains Voltage	100 to 240 V AC
DC Supply	24 V
Dimensions	492 × 205 × 514 mm
Weight	29.0 kg
Form Factor	19 inch rack / bench metal case

PARAMETER	VALUE
Measurement Accuracy Class	less than 1 dB class (OEM measurement accuracy statement)
Operating Role	selective voltmeter, EMI receiver, radio monitoring Notes Specs from R&S ESVP 20–1300 MHz documentation as compiled by Radiomuseum / OEM model notes (BN 354.3000.52). Confirm whether the unit is the 1300 MHz .52 or the 1000 MHz .54 sibling, and inventory installed options and firmware on the faceplate.

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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Display Type	8 digit LED frequency display
Typical Oscillator Leakage fo1	typ. 40 dBµV
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selective voltmeter, EMI receiver, radio monitoring

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Specs from R&S ESVP 20-1300 MHz documentation as compiled by Radiomuseum / OEM model notes (BN 354.3000.52). Confirm whether the unit is the 1300 MHz .52 or the 1000 MHz .54 sibling, and inventory installed options and firmware on the faceplate.

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.