

ROHDE & SCHWARZ

ESVS10

The Rohde & Schwarz ESVS10 is a highly accurate, CISPR 16-compliant EMI test receiver designed for the measurement of electromagnetic interference in the frequency range of 20 MHz to 1000 MHz. Built for professional EMC testing and diagnostic measurements, it features robust RF performance, integrated detectors, and versatile remote control capabilities.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2), RS-232-C, User Interface (15-pin D-Sub)
Display	Backlit LCD graphic display

Physical

Power Supply	100 V / 120 V / 220 V / 240 V AC $\pm 10\%$ (47 to 440 Hz), or 11 V to 33 V DC
Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	435 mm × 236 mm × 460 mm mm
Weight	24 kg (approx., configuration dependent) kg

Frequency Specifications

Frequency Range	20 MHz to 1000 MHz
Frequency Tuning Resolution	100 Hz

Amplitude and Level Parameters

Level Measurement Range	-10 dB μ V to +137 dB μ V
RF Attenuator Range	0 to 120 dB
RF Attenuator Steps	10 dB
RF Input Impedance	50 Ω
Input VSWR (attenuation ≥ 10 dB)	< 1.2
Maximum RF Input Power (Continuous)	137 dB μ V (1 W)

Bandwidths and Filters

CISPR Bandwidths (6 dB)	9 kHz, 120 kHz
Resolution Bandwidths (3 dB)	10 kHz, 100 kHz

Detectors and Demodulation

Detector Types	Peak (PK), Quasi-Peak (QP), Average (AV)
Analog Demodulation Modes	AM, FM

Inputs, Outputs and Interfaces

RF Input Connector Type	N female
External Reference Input Frequency	10 MHz (BNC female)
Internal Reference Output Frequency	10 MHz (BNC female)
IF Output	BNC female
Headphone Jack Connector	6.3 mm phone jack

Standards and Quality Assurance

CISPR Compatibility	Fully compliant with CISPR 16-1-1
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Calibration & Diagnostics

Calibration Source Frequency	100 MHz
Calibration Source Level	90 dBμV

Measurement Performance

Simultaneous Detectors	Peak, Quasi-Peak, and Average
Display Range	10 dB to 100 dB

Options & Accessories

Tracking Generator Option (ESVS-B1) Frequency Range	20 MHz to 1000 MHz
Tracking Generator Option (ESVS-B1) Output Level	-90 dBm to 0 dBm

Performance

Measurement Time	5 ms to 100 s
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Accuracy

Total Level Measurement Error	< 1 dB (for levels > 10 dB above noise floor)
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Power Supply

External DC Input Range	11 V to 33 V
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Options

Internal Battery Option	ESHS-B2 (rechargeable lead-acid battery pack)
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TECHNOLOGY

EMI Test Receiver

APPLICATIONS

Electromagnetic Interference (EMI) Testing and Diagnostics

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.