Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 3, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESR3 EMI Test Receiver

The R&S®ESR3 provides an EMI test receiver covering 9 kHz to 3.6 GHz (DC-coupled input 1) for EMC compliance measurements. Operating modes include EMI test receiver, spectrum analyzer, and optional real-time spectrum analyzer (R&S®ESR-K55). Time-domain (FFT) scan accelerates CISPR measurements. Dual RF inputs, CISPR detectors, and preselection support standard conducted and radiated EMI workflows. CISPR / EN / FCC EMI compliance; disturbance measurements; spectrum analysis to 3.6 GHz; time-domain EMI scanning. With ESR-B29: 10 Hz to max frequency (DC coupled) DANL (analyzer mode, RF att 0 dB, preamp off, normalized to 1 Hz RBW – ESR3/ESR7) 9 kHz–100 kHz: < −130 dBm, −140 dBm (typ.) 100 kHz–1 MHz: < −145 dBm, −150 dBm (typ.)

No photo

MODEL **Rohde & Schwarz ESR3**	CALIBRATION **N/A — off-catalog OEM datasheet**
CONDITION **See OEM documentation**	STATUS **Not listed on Aumictech inventory**
RFQ / SKU **ESR3**	LISTING **Off-catalog — OEM datasheet only**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

• Frequency: input 1 DC-coupled 9 kHz–3.6 GHz; AC-coupled 10 MHz–3.6 GHz; input 2 DC-coupled 9 kHz–1 GHz • Optional R&S®ESR-B29: DC-coupled from 10 Hz to max frequency • Frequency resolution: 0.1 Hz (receiver); 0.01 Hz (analyzer) • Modes: EMI receiver; spectrum analyzer; real-time SA with ESR-K55 • Time-domain scan FFT segments (f < 7 GHz examples): 0.66 MHz @ RBW 200 Hz; 30 MHz @ 9 kHz; 24.6 MHz @ 120 kHz; 25.6 MHz @ 1 MHz • Display: 21 cm (8.4″) TFT, 800×600 • RF input: 50 Ω N female; attenuator 0–75 dB / 5 dB steps (input 1) • AC: 100–240 V ±10%; ~150 W typ. (max 250 W with options) • Dimensions: 412 × 197 × 517 mm; net weight ~12.8 kg (without options)

ESR3 Characteristics / Specifications

PARAMETER	VALUE
Model	R&S®ESR3
Manufacturer	Rohde & Schwarz
Instrument Type	EMI Test Receiver
Alias	ESR3 Frequency Range
Input 1 AC	10 MHz to 3.6 GHz
Input 1 DC	9 kHz to 3.6 GHz
Input 2 DC	9 kHz to 1 GHz
Display	21 cm (8.4″) TFT, 800×600
Power	100–240 V, 50–400 Hz class; ~150 W (meas.), max 250 W with options
Weight	12.8 kg (28.22 lb) without options
Calibration interval (OEM)	1 year recommended Standard Operating Conditions Level uncertainty tables typically stated for +20 °C to +30 °C. Use preselection and CISPR bandwidths/detectors per applicable standard. Operational Notes ESR3 tops at 3.6 GHz–use ESR7 (7 GHz) or ESR26 (26.5 GHz) for higher bands. Confirm installed options (B4 OCXO, B22 preamp, K55 real-time, B29 LF extension).
Frequency	input 1 DC-coupled 9 kHz–3.6 GHz; AC-coupled 10 MHz–3.6 GHz; input 2 DC-coupled 9 kHz–1 GHz
Optional R&S®ESR-B29	DC-coupled from 10 Hz to max frequency
Frequency resolution	0.1 Hz (receiver); 0.01 Hz (analyzer)
Modes	EMI receiver; spectrum analyzer; real-time SA with ESR-K55
Time-domain scan FFT segments (f < 7 GHz examples)	0.66 MHz @ RBW 200 Hz; 30 MHz @ 9 kHz; 24.6 MHz @ 120 kHz; 25.6 MHz @ 1 MHz
RF input	50 Ω N female; attenuator 0–75 dB / 5 dB steps (input 1)
Dimensions	412 × 197 × 517 mm; net weight ~12.8 kg (without options)

ESR3 Specifications

PARAMETER	VALUE
Applications	CISPR / EN / FCC EMI compliance; disturbance measurements; spectrum analysis to 3.6 GHz; time-domain EMI scanning.
Key Features	- Frequency: input 1 DC-coupled 9 kHz–3.6 GHz; AC-coupled 10 MHz–3.6 GHz; input 2 DC-coupled 9 kHz–1 GHz
Technical Specifications	Model: R&S®ESR3
Frequency Range	Input 1 AC: 10 MHz to 3.6 GHz
General	Display: 8.4″ SVGA color TFT
Standard Operating Conditions	Level uncertainty tables typically stated for +20 °C to +30 °C. Use preselection and CISPR bandwidths/detectors per applicable standard.

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

PARAMETER	VALUE
Model	R&S®ESR3
Manufacturer	Rohde & Schwarz
Instrument Type	EMI Test Receiver
Alias	ESR3

Frequency Range

Frequency Range

PARAMETER	VALUE
Input 1 AC	10 MHz to 3.6 GHz
Input 1 DC	9 kHz to 3.6 GHz
Input 2 DC	9 kHz to 1 GHz

With ESR-B29: 10 Hz to max frequency (DC coupled)

DANL (analyzer mode, RF att 0 dB, preamp off, normalized to 1 Hz RBW – ESR3/ESR7)
9 kHz–100 kHz: < –130 dBm, –140 dBm (typ.)
100 kHz–1 MHz: < –145 dBm, –150 dBm (typ.)
1 MHz–1 GHz: < –152 dBm, –155 dBm (typ.)
1 GHz–3.6 GHz: < –150 dBm, –151 dBm (typ.)

General
Display: 8.4″ SVGA color TFT
Power: 100–240 V, 50–400 Hz class; ~150 W (meas.), max 250 W with options
Dimensions W×H×D: 412 × 197 × 517 mm
Weight: 12.8 kg (28.22 lb) without options
Calibration interval (OEM): 1 year recommended

Standard Operating Conditions
Level uncertainty tables typically stated for +20 °C to +30 °C. Use preselection and CISPR bandwidths/detectors per applicable standard.

Operational Notes
ESR3 tops at 3.6 GHz–use ESR7 (7 GHz) or ESR26 (26.5 GHz) for higher bands. Confirm installed options (B4 OCXO, B22 preamp, K55 real-time, B29 LF extension).

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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Generated August 3, 2026