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Data Sheet
August 13, 2026

ROHDE & SCHWARZ

Rohde and Schwarz EFA33 TV Test Receiver

Rohde & Schwarz EFA33 TV Test Receiver Analog B/G The R&S EFA33 is the high-end analog TV test receiver / demodulator for standard B/G in the EFA family. Asahigh-end demodulator it usesanon-selective wideband RF input for transmitter testing. With option EFA-B3 RF preselection it becomesahigh-end test receiver with two additional selective RF inputs (50 ohmNand 75 ohm BNC), image/IF rejection, and an extended 4.5 MHz to 1000 MHz range. IF is 38.9 MHz class. Dual-sound and NICAM (EFA-B2) are available. IEEE-bus control is built in.
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MODEL Rohde & Schwarz EFA33	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU EFA33	LISTING https://aumictechlabs.com/products/efa33-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz EFA33 is a TV test receiver and demodulator engineered for precision reception and analysis of analog and digital television signals across cable networks, transmitter stations, and development laboratories. It demodulates vestigial sideband AM signals (analog TV) and quadrature amplitude modulated DVB signals with comprehensive transmission parameter

measurement capabilities.Technical Specifications Signal Reception and Demodulation Vestigial sideband AM (analog TV signals) Quadrature amplitude modulated DVB signals RF input: 45 MHz to 1000 MHz IF input: 38.9 MHz Analog TV Standards Standard B/G Standard D/K or I (with option EFA-B3) Digital TV Standards DVB-C (with option EFA-B3) Interfaces IEC/IEEE-bus RS-232-CKey Features Modular design with retrofitting capability for optional modules Seven alarm-triggered relays for external device switching Alarm messaging system with internal storage for alarms and measurement functions User-friendly operation and straightforward configurationAvailable Options EFA-B3: RF preselection and multistandard digital demodulator EFA-B30: Multistandard digital demodulator EFA-B11, EFA-B13, EFA-B30: SAW filters (2 MHz, 6 MHz, 7 MHz, 8 MHz) EFA-B4: MPEG2 analyzer/decoder CAL: Calibration serviceCompatibility & Integration The EFA33 integrates with Rohde & Schwarz test and measurement instruments via standard interfaces, enabling automated testing and data acquisition workflows across distributed measurement systems.

Features & description

From manufacturer datasheet

Features

• Switchable group-delay correction and synchronous detector (5 modes) • Intercarrier demodulation; balanced audio outputs • Three option slots in a 3 HU 19 inch chassis • SAW filters 2/6/7/8 MHz (EFA-B11/B12/B13/B14) • Video distributor EFA-B6; residual picture carrier EFA-B8

Applications

• Analog B/G transmitter and transposer testing • Cable-headend and terrestrial monitoring • Vision/sound carrier spacing, FM deviation, residual picture carrier • Optional NICAM sound and MPEG-2 decode (EFA-B4) • Upgrade path toward DVB-C digital demodulation in the same chassis

EFA33 Characteristics / Specifications

PARAMETER	VALUE
Model	EFA33
Manufacturer	Rohde & Schwarz
Instrument Type	Analog TV test receiver / demodulator
Alias	EFA 33; EFA model 33; R&S EFA33
TV Standard	B/G analog
IF Frequency Class	38.9 MHz
RF Range Demodulator Class	45 MHz to 1000 MHz
RF Range with EFA B	4.5 MHz to 1000 MHz (also stated 5 MHz to 1000 MHz)
Selective Input 50 ohm	N female, rear (with EFA-B3)
Selective Input 75 ohm	BNC female, rear (with EFA-B3)
Nonselective Input	50 ohmNfemale, rear
Return Loss Selective 50 ohm with B	greater than or equal to 17 dB, typ. greater than 20 dB
Return Loss Nonselective	greater than or equal to 30 dB
Level Range Low Distortion	minus 55 dBm to +20 dBm (preamp off, standard receiver class)
Noise Figure Low Noise	typ. 12 dB; typ. 7 dB with preamp
Image Rejection VHF	greater than or equal to 70 dB
LO Resolution	1 Hz
LO Frequency Error	less than or equal to 2e-6
SSB Phase Noise at 860 MHz 1 kHz	less than or equal to minus 82 dBc/Hz, typ. minus 86
SSB Phase Noise at 860 MHz 20 kHz	less than or equal to minus 93 dBc/Hz, typ. minus 98
SNR Class High End	outstanding SNR (OEM high-end analog statement)
IF Input	50 ohm BNC rear, 36 MHz class, minus 20 dBm to +16 dBm
Reference Input	10 MHz, 50 ohm BNC rear
Form Factor	19 inch, 3 HU
Remote Interface	IEEE bus

PARAMETER	VALUE
RF Preselection Option	EFA-B3 2067.3627.02
NICAM Option	EFA-B2
MPEG2 Decoder Option	EFA-B4
Video Distributor Option	EFA-B6
Sound Measurements	vision/sound spacing, FM/pilot deviation, residual picture carrier
Audio Outputs	balanced Notes Specs from the R&S EFA TV Test Receiver family data sheets (B/G analog models 12/33). Confirm EFA-B3 (selective receiver versus demodulator-only), NICAM, and SAW-filter options. This is analog B/G, not EFA63 DVB-C or EFA89 D/K-I.
Return loss	Selective 50 ohm with B3: greater than or equal to 17 dB, typ. greater than 20 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.

Specifications

Specifications

PARAMETER	VALUE
Model	EFA33
Manufacturer	Rohde & Schwarz
Instrument Type	Analog TV test receiver / demodulator
Alias	EFA 33; EFA model 33; R&S EFA33
TV Standard	B/G analog
IF Frequency Class	38.9 MHz
RF Range Demodulator Class	45 MHz to 1000 MHz
RF Range with EFA B3	4.5 MHz to 1000 MHz (also stated 5 MHz to 1000 MHz)
Selective Input 50 ohm	N female, rear (with EFA-B3)
Selective Input 75 ohm	BNC female, rear (with EFA-B3)
Nonselective Input	50 ohmNfemale, rear
Return Loss Selective 50 ohm with B3	greater than or equal to 17 dB, typ. greater than 20 dB
Return Loss Nonselective	greater than or equal to 30 dB
Level Range Low Distortion	minus 55 dBm to +20 dBm (preamp off, standard receiver class)
Noise Figure Low Noise	typ. 12 dB; typ. 7 dB with preamp
Image Rejection VHF	greater than or equal to 70 dB
LO Resolution	1 Hz
LO Frequency Error	less than or equal to 2e-6

SSB Phase Noise at 860 MHz 1 kHz: less than or equal to minus 82 dBc/Hz, typ. minus 86
SSB Phase Noise at 860 MHz 20 kHz: less than or equal to minus 93 dBc/Hz, typ. minus 98

Specifications

PARAMETER	VALUE
SNR Class High End	outstanding SNR (OEM high-end analog statement)
IF Input	50 ohm BNC rear, 36 MHz class, minus 20 dBm to +16 dBm
Reference Input	10 MHz, 50 ohm BNC rear
Form Factor	19 inch, 3 HU

Option Slots: 3

Specifications

PARAMETER	VALUE
Remote Interface	IEEE bus
RF Preselection Option	EFA-B3 2067.3627.02
NICAM Option	EFA-B2
MPEG2 Decoder Option	EFA-B4
Video Distributor Option	EFA-B6
Sound Measurements	vision/sound spacing, FM/pilot deviation, residual picture carrier
Audio Outputs	balanced

Notes
Specs from the R&S EFA TV Test Receiver family data sheets (B/G analog models 12/33). Confirm EFA-B3 (selective receiver versus demodulator-only), NICAM, and SAW-filter options. This is analog B/G, not EFA63 DVB-C or EFA89 D/K-I.

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

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