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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde and Schwarz EFA93 TV Test Receiver

Rohde & Schwarz EFA93 TV Test Receiver / High End Demodulator (M/N NTSC/BTSC) The R&S EFA93 is the analog M/N (NTSC/BTSC) high end demodulator in the EFA TV test receiver family. Order number 2067.3004.93. It demodulates vestigial sideband AM television with switchable synchronous/envelope detection, sound trap and group delay correction, BTSC/MTS audio, and optional EFA B3 RF preselection that adds selective 50 ohm and 75 ohm RF inputs. Sibling EFA90 is the selective test receiver version of the same M/N demodulator. The R&S EFA93 is the analog M/N (NTSC/BTSC) high end demodulator in the EFA TV test receiver family. Order number 2067.3004.93. It demodulates vestigial sideband AM television with switchable synchronous/envelope detection, sound trap and group delay correction, BTSC/MTS audio, and optional EFA B3 RF preselection that adds selective 50 ohm and 75 ohm RF inputs. Sibling EFA90 is the selective test receiver version of the same M/N demodulator. NTSC/BTSC transmitter and cable headend monitoring; vision/sound carrier ratio, residual picture carrier, and modulation depth measurements; studio IF demodulation at 38.9 MHz; lab alignment of analog TV exciters.

**MODEL****Rohde & Schwarz EFA93****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****EFA93****LISTING**<https://aumictechlabs.com/products/efa93-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz EFA93 is a TV test receiver and demodulator engineered for precise reception and analysis of analog and digital television signals across cable networks, transmitter

stations, development laboratories, and quality control environments. The instrument demodulates vestigial sideband AM signals for analog TV and quadrature amplitude modulated DVB signals for digital TV, with specific design for M/N and NTSC analog standards. It measures comprehensive transmission parameters, supports terrestrial radio channel monitoring, and delivers direct transmitter quality control when deployed as a non-selective RF test demodulator.

Technical Specifications

RF input range (Test Receiver mode): 45 MHz to 860 MHz
RF input range (TV Demodulator mode): 45 MHz to 1000 MHz
Modular architecture with field-retrofittable options

Key Features

- High-precision reception and demodulation of analog TV signals (VSB-AM)
- Digital TV signal processing (DVB QAM)
- Multi-parameter transmission measurement capability
- IEC/IEEE-bus (GPIB) interface for instrument control
- RS-232-C serial interface
- Remote control via LAN/WAN terminal server connectivity
- Seven alarm-triggered relays for external device switching
- Internal alarm messaging for measurement functions and storage

Modular Options

- Option EFA-B3: RF preselection for high-end test receiver applications
- Option EFA-B4: MPEG2 decoder
- Option EFA-B6: Video distributor with 4 video outputs
- Option EFA-B8: Residual picture carrier measurement
- Option EFA-B11: 6 MHz SAW filter

Typical Applications

- Cable network signal monitoring and analysis
- TV transmitter station quality assurance
- Television signal development and testing
- Terrestrial radio channel monitoring and control
- Direct transmitter quality control measurement

EFA93 Characteristics / Specifications

PARAMETER	VALUE
Sound trap and group delay profiles	4 MHz FCC, 5 MHz FCC, 5 MHz FLAT Audio modes split carrier, quasi split carrier, and intercarrier; BTSC stereo/SAP/mono Optional EFA B3 RF preselection (two selective RF inputs plus nonselective input) Modular 3 HU chassis with IEC/IEEE and RS 232; alarm relays
Model	EFA93
Manufacturer	Rohde & Schwarz
Instrument Type	Analog TV Test Receiver / High End Demodulator (M/N NTSC/BTSC)
Alias	R&S EFA93; EFA 93; 2067.3004.93
TV Standard	M/N analog, NTSC/BTSC
Order Number Receiver Sibling	EFA90 2067.3004.90 (selective, 45 MHz to 860 MHz)
Nonselective RF Frequency Range	45 MHz to 1000 MHz
Selective RF with EFA B	5 MHz to 1000 MHz (vision carrier; 45 to 860 MHz class on EFA90)
Nonselective RF Connector	50 ohmNfemale, rear
Nonselective Return Loss	greater than or equal to 30 dB
Nonselective Level Range	minus 41 dBm to plus 21 dBm (rms referred to sync)
Selective Level Range Preamplifier Off	minus 67 dBm to plus 13 dBm (standard test receiver column)
LO Resolution	1 Hz
LO Frequency Error	less than or equal to 2e-6
SSB Phase Noise RF 860 MHz 10 kHz Offset Demodulator	typically minus 106 dBc/Hz
Weighted Video S/N CCIR 567 Demodulator	greater than or equal to 67 dB, typically 70 dB (PRF greater than or equal to minus 1 dBm)
Luminance Nonlinearity	less than or equal to 2 percent
Differential Gain	less than or equal to 2 percent
Differential Phase	less than or equal to 1 degree
Amplitude Response Sound Trap Off DC to 4.2 MHz	less than or equal to 0.25 dB (demodulator)

PARAMETER	VALUE
Amplitude Response Sound Trap On DC to 3.6 MHz	less than or equal to 0.25 dB
Flat Group Delay to 4.2 MHz	less than or equal to 20 ns
TwoTPulsekFactor	less than or equal to 1 percent, typically 0.5 percent
Chrominance Luminance Delay Flat	less than or equal to 12 ns (demodulator)
IF Vision Carrier	38.9 MHz
IF Input Level	minus 21 dBm to minus 1 dBm (rms to sync)
IF Return Loss 34 to 40 MHz	greater than or equal to 20 dB
Regulated IF Output Level	minus 7 dBm
Intercarrier Frequency	4.5 MHz
Video Output CCVS 87.5 percent Modulation	1.0 Vpp plus/minus 2 percent into 75 ohm
Video Return Loss 0 to 5 MHz	greater than or equal to 26 dB
Audio Composite Level	10 mV per kHz FM deviation into 75 ohm
Audio THD plus/minus 25 kHz Deviation 30 Hz to 15 kHz	less than or equal to 0.1 percent
Audio S/N Split Carrier Deemphasis 75 us	greater than or equal to 60 dB
Deemphasis	75 us or off
Vision Carrier Level Measurement Resolution	0.1 dB
Residual Picture Carrier Resolution	0.1 percent
Form Factor	19 inch, 3 HU modular EFA chassis
Remote Control	IEC/IEEE bus and RS 232 C Notes Specs from the R&S EFA family data sheet, NTSC/BTSC section for models 90/93 and option EFA B3/EFA B30. EFA93 is the high end demodulator (nonselective RF to 1000 MHz); EFA90 is the selective test receiver. Confirm EFA B3 preselection, EFA B6 video distributor, and SAW filter options on the unit.
Return loss	greater than or equal to 30 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	
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Manufacturer	Rohde & Schwarz
Instrument Type	Analog TV Test Receiver / High End Demodulator (M/N NTSC/BTSC)
Alias	R&S EFA93; EFA 93; 2067.3004.93
TV Standard	M/N analog, NTSC/BTSC
Order Number Receiver Sibling	EFA90 2067.3004.90 (selective, 45 MHz to 860 MHz)
Nonselective RF Frequency Range	45 MHz to 1000 MHz
Selective RF with EFA B3	5 MHz to 1000 MHz (vision carrier; 45 to 860 MHz class on EFA90)
Nonselective RF Connector	50 ohmNfemale, rear
Nonselective Return Loss	greater than or equal to 30 dB
Nonselective Level Range	minus 41 dBm to plus 21 dBm (rms referred to sync)
Selective Level Range Preamplifier Off	minus 67 dBm to plus 13 dBm (standard test receiver column)
LO Resolution	1 Hz
LO Frequency Error	less than or equal to 2e-6
SSB Phase Noise RF 860 MHz 10 kHz Offset Demodulator: typically minus 106 dBc/Hz	
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Flat Group Delay to 4.2 MHz	less than or equal to 20 ns
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Specifications

PARAMETER	VALUE
Audio S/N Split Carrier Deemphasis 75 us	greater than or equal to 60 dB
Deemphasis	75 us or off
Vision Carrier Level Measurement Resolution	0.1 dB
Residual Picture Carrier Resolution	0.1 percent
Form Factor	19 inch, 3 HU modular EFA chassis
Remote Control	IEC/IEEE bus and RS 232 C

Notes

Specs from the R&S EFA family data sheet, NTSC/BTSC section for models 90/93 and option EFA B3/EFA B30. EFA93 is the high end demodulator (nonselective RF to 1000 MHz); EFA90 is the selective test receiver. Confirm EFA B3 preselection, EFA B6 video distributor, and SAW filter options on the unit.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.