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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85640A Tracking Generator, 300 kHz to 2.9 GHz

Keysight / Agilent 85640A Portable Tracking Generator 300 kHz to 2.9 GHz The Keysight/Agilent (HP) 85640A is a portable tracking generator covering 300 kHz to 2.9 GHz for use with 8560-series portable spectrum analyzers. OEM data sheet 5952-4854 rates output from -80 dBm to 0 dBm, a 70 dB step attenuator, flatness of ± 2.0 dB (ref 300 MHz with 10 dB atten), and scalar dynamic range of 115 dB from 1 MHz to 2.7 GHz at 300 Hz RBW. Scalar network / frequency-response measurements, filter alignment, and tracking-generator stimulus with 8560/8561/8562/8563 portable spectrum analyzers. The Keysight/Agilent (HP) 85640A is a portable tracking generator covering 300 kHz to 2.9 GHz for use with 8560-series portable spectrum analyzers. OEM data sheet 5952-4854 rates output from -80 dBm to 0 dBm, a 70 dB step attenuator, flatness of ± 2.0 dB (ref 300 MHz with 10 dB atten), and scalar dynamic range of 115 dB from 1 MHz to 2.7 GHz at 300 Hz RBW. Scalar network / frequency-response measurements, filter alignment, and tracking-generator stimulus with 8560/8561/8562/8563 portable spectrum analyzers.



MODEL

**Agilent / Keysight
85640A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85640A

LISTING

<https://aumictechlabs.com/products/85640a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 85640A is a MIL-rugged, portable tracking generator engineered to extend the measurement capabilities of the 8560 Series spectrum analyzers. Operating from 300 kHz to 2.9 GHz, it enables scalar and spectrum analysis of RF components and subsystems, delivering gain, frequency response, compression, flatness, and return loss measurements. The instrument also characterizes harmonic and inter-modulation distortion, along with spurious products.

Technical Specifications

Frequency Range: 300 kHz to 2.9 GHz Output Power: -80 dBm to 0 dBm (70 dB step attenuator with >10 dB vernier range) Output Flatness: ± 2.0 dB (referenced to 300 MHz at 10 dB attenuation) Dynamic Range: 95 dB (300 kHz–1 MHz), 115 dB (1 MHz–2.7 GHz), 110 dB (2.7 GHz–2.9 GHz); 300 Hz minimum RBW; 100 Hz with compatible analyzers

Harmonic Spurs: <-25 dBc at -10 dBm, 10 dB attenuation Non-Harmonic Spurs: <-27 dBc (300 kHz–2.0 GHz), <-23 dBc (2.0 GHz–2.9 GHz) LO Feedthrough: 2.9 GHz) Output Return Loss: 10 dB (0 dB attenuation), 17 dB nominal (10 dB attenuation) Tracking Drift: 300 Hz/hour nominal (after 30 min warm-up) Warm-up Time: 5 minutes Power Requirements: 110, 120, 220, or 240 V ($\pm 10\%$), 47–66 Hz; 130 VA maximum, 35 W RF Output: Type N female, 50 ohm nominal Operating Temperature: -10°C to +50°C Storage Temperature: -62°C to +85°C Weight: 8.4 kg (18.5 lbs) Altitude: Up to 15,000 ft Mechanical: Compliant with MIL-STD-461B Part 4; 30 g half-sine shock (11 ms); 8-inch transit drop rated

Key Features

Front-panel tracking control minimizes tracking error Continuously variable output power with dual-range attenuator Support for 300 Hz RBW; 100 Hz with 8561A, 8562A/B models Auxiliary inputs: 300 MHz input (BNC), LO input (SMA), blanking (BNC rear), external ALC (BNC rear)

Compatibility & Integration

Designed for integration with HP/Agilent 8560A/E, 8561A/B/E, and 8562A/B spectrum analyzers.

85640A Characteristics / Specifications

PARAMETER	VALUE
Model	85640A
Instrument Type	Portable RF tracking generator
Frequency Range	300 kHz to 2.9 GHz
Tracking Drift Nominal	300 Hz per hour after 30 min warm-up
Output Power Maximum	0 dBm
Output Power Range	-80 dBm to 0 dBm
Output Attenuator Range	70 dB
Vernier Range	greater than 10 dB
Flatness	+/-2.0 dB (ref to 300 MHz with 10 dB atten)
Attenuator Switching Accuracy	+/-0.8 dB per 10 dB; +/-1.5 dB max
Attenuator Repeatability Nominal	+/-0.2 dB
Harmonic Spurs At Minus 10 Dbm	less than -25 dBc
Nonharmonic Spurs 300 Khz To 2 Ghz	less than -27 dBc
Nonharmonic Spurs 2 To 2.9 Ghz	less than -23 dBc
Lo Feedthrough Above 2.9 Ghz	less than -26 dBm
Dynamic Range 1 Mhz To 2.7 Ghz	115 dB (300 Hz RBW)
Dynamic Range 2.7 To 2.9 Ghz	110 dB
Dynamic Range 300 Khz To 1 Mhz	95 dB
Minimum Rbw Supported	300 Hz (100 Hz with some 8561/8562 models)
Power Requirements	110/120/220/240 V +/-10%, 47 to 66 Hz
Maximum Power Dissipation	130 VA, 35 W
Weight Nominal	8.4 kg (18.5 lb)
Chassis Form	portable tracking generator

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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Chassis Form	portable tracking generator
Notes	
From Agilent 85640A Portable Tracking Generator data sheet 5952-4854. Compatible with 8560A, 8561A/B, and 8562A/B portable spectrum analyzers (and related 856x portable family members per manuals).	

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.