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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85645A

Keysight 85645A Tracking Source 300 kHz to 26.5 GHz The Keysight 85645A is an AC/DC-coupled microwave tracking source covering 300 kHz to 26.5 GHz for high-dynamic-range scalar measurements with compatible spectrum analyzers per the HP 85644A/85645A specifications chapter. Microwave amplifier and filter response, frequency-translation testing with offset tracking, and scalar analysis to 26.5 GHz. Frequency Range Dc Coupled: 300 kHz to 26.5 GHz The Keysight 85645A is an AC/DC-coupled microwave tracking source covering 300 kHz to 26.5 GHz for high-dynamic-range scalar measurements with compatible spectrum analyzers per the HP 85644A/85645A specifications chapter. Microwave amplifier and filter response, frequency-translation testing with offset tracking, and scalar analysis to 26.5 GHz. Frequency Range Dc Coupled: 300 kHz to 26.5 GHz Frequency Range Ac Coupled: 10 MHz to 26.5 GHz



MODEL

**Agilent / Keysight
85645A**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

85645A

LISTING

<https://aumictechlabs.com/products/85645a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 85645A is a tracking source designed to complement spectrum analyzers for swept amplitude response measurements across a wide frequency range. It delivers selectable RF output power with AC or DC coupling options, enabling high dynamic range characterization when paired with compatible host instruments. The 85645A supports offset tracking capability for measuring frequency translation devices such as mixers and systems with propagation delays. It also functions as a standalone CW signal generator, producing fixed, non-synthesized signals without requiring connection to external

equipment. Technical Specifications Frequency range: 300 kHz to 26.5 GHz RF output power: Selectable Coupling: AC or DC selectable Maximum level: +10 dB Minimum level: -80 dB Offset tracking: Supported for frequency translation devices and delayed systems Key Features Dual-mode operation as both tracking source and standalone CW generator Selectable RF output power for flexible measurement configurations AC/DC coupling selection for diverse test environments High dynamic range performance in paired operation with spectrum analyzers Fast swept measurements with compatible host instruments Typical Applications Amplitude response characterization of RF and microwave devices Mixer and frequency converter measurements with offset tracking System gain and loss measurements across 300 kHz to 26.5 GHz CW signal generation for bench testing and calibration Compatibility & Integration The 85645A integrates with Keysight (Agilent/HP) 8560 Series and 8590 Series portable spectrum analyzers, the 8566A/B benchtop analyzer, 8340A/B synthesized sweepers, and 8350 Series sweep oscillators. The product is obsolete and no longer sold by Keysight. User and service documentation is available through authorized channels.

85645A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Tracking source
Frequency Range Dc Coupled	300 kHz to 26.5 GHz
Frequency Range Ac Coupled	10 MHz to 26.5 GHz
Maximum Leveled Power Band0 300 Khz To 1.8 Ghz	plus 10 dBm
Maximum Leveled Power Band0 1.8 To 2.9 Ghz	plus 5 dBm
Maximum Leveled Power Band1 2.0 To 7.0 Ghz	plus 10 dBm
Maximum Leveled Power Band2 5.8 To 13.5 Ghz	plus 5 dBm
Maximum Leveled Power Band3 12.4 To 20.0 Ghz	plus 5 dBm
Maximum Leveled Power Band4 12.1 To 26.5 Ghz	minus 2 dBm
Minimum Leveled Power Characteristic	minus 70 dBm
Amplitude Resolution	0.01 dB
Attenuator Range	60 dB
Attenuator Accuracy Characteristic	1.9 dB maximum over 60 dB
Amplitude Accuracy Spec	1 dB relative to 2 dBm references
Output Flatness Spec	2 dB
Vernier Range Band4 Characteristic	greater than 10 dB
Harmonics Band0 Above 5 Mhz Characteristic	greater than 25 dBc
Harmonics Bands 1 To 4 Characteristic	greater than 30 dBc
Maximum Sweep Speed	250 MHz per ms
Offset Tracking Maximum	200 MHz
Offset Resolution	10 Hz timesNRf Output Connector: SMA female

PARAMETER	VALUE
Rf Output Vswr 300 Khz To 2.9 Ghz	1.5 to 1 at 0 dB attenuation leveled
Rf Output Vswr 2.9 To 18 Ghz	1.6 to 1
Rf Output Vswr 18 To 26.5 Ghz	2.0 to 1
Lo Input Requirement	SMA female greater than 10 dBm
Warmup Time	30 minutes
Calibration Interval	2 years
Operating Temperature Spec	10 C to 55 C
Dynamic Range Example With 8566 Band1 2.0 To 5.8 Ghz	139 dB characteristic
Attenuation	leveled
Operating temperature	Spec: 10 C to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec: 10 C to 55 C
Operating Temperature	Spec: 10 C to 55 C
Operating Temperature Spec	10 C to 55 C
Dynamic Range Example With 8566 Band1 2.0 To 5.8 Ghz	139 dB characteristic Notes Numeric rows from HP 85644A and 85645A Tracking Source Specifications and Characteristics chapter.

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 chapter.

Applications

Microwave amplifier and filter response, frequency-translation testing with offset tracking, and scalar analysis to 26.5 GHz.

Key Features

AC or DC coupling selectable

Frequency coverage to 26.5 GHz

Offset tracking and power sweep

Compatible with 8560 8566 8590 hosts

SMA RF output

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Instrument Type	Tracking source
Frequency Range Dc Coupled	300 kHz to 26.5 GHz
Frequency Range Ac Coupled	10 MHz to 26.5 GHz

Maximum Leveled Power Band0 300 Khz To 1.8 Ghz: plus 10 dBm

Maximum Leveled Power Band0 1.8 To 2.9 Ghz: plus 5 dBm

Maximum Leveled Power Band1 2.0 To 7.0 Ghz: plus 10 dBm

Maximum Leveled Power Band2 5.8 To 13.5 Ghz: plus 5 dBm

Maximum Leveled Power Band3 12.4 To 20.0 Ghz: plus 5 dBm

Maximum Leveled Power Band4 12.1 To 26.5 Ghz: minus 2 dBm

Specifications

PARAMETER	VALUE
Minimum Leveled Power Characteristic	minus 70 dBm
Amplitude Resolution	0.01 dB
Attenuator Range	60 dB
Attenuator Accuracy Characteristic	1.9 dB maximum over 60 dB
Amplitude Accuracy Spec	1 dB relative to 2 dBm references
Output Flatness Spec	2 dB
Vernier Range Band4 Characteristic	greater than 10 dB
Harmonics Band0 Above 5 Mhz Characteristic	greater than 25 dBc
Harmonics Bands 1 To 4 Characteristic	greater than 30 dBc
Maximum Sweep Speed	250 MHz per ms
Offset Tracking Maximum	200 MHz

PARAMETER	VALUE
Offset Resolution	10 Hz timesNRf Output Connector: SMA female

Rf Output Vswr 300 Khz To 2.9 Ghz: 1.5 to 1 at 0 dB attenuation leveled

Specifications

PARAMETER	VALUE
Rf Output Vswr 2.9 To 18 Ghz	1.6 to 1
Rf Output Vswr 18 To 26.5 Ghz	2.0 to 1
Lo Input Requirement	SMA female greater than 10 dBm
Warmup Time	30 minutes
Calibration Interval	2 years
Operating Temperature Spec	10 C to 55 C

Dynamic Range Example With 8566 Band1 2.0 To 5.8 Ghz: 139 dB characteristic

Notes
Numeric rows from HP 85644A and 85645A Tracking Source Specifications and Characteristics chapter.

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.