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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 70300A RF Tracking Generator (adds stimulus-response measurement to 70000 series spectrum analyzer)

Agilent HP 70300A Tracking Generator Module The HP 70300A is an MMS RF tracking generator module covering 20 Hz to 2.9 GHz for use with HP 70000 modular spectrum analyzers. OEM MMS documentation and system interconnect materials list LO injection 3.0 to 6.6 GHz, 0 to 2.9 GHz RF output path, and 300 MHz / 21.4 MHz IF interfaces used with companion LO/IF/RF modules. Scalar frequency-response and tracking-generator measurements in HP 70000 modular spectrum analyzer systems up to 2.9 GHz. Rf Output Frequency Range: 20 Hz to 2.9 GHz The HP 70300A is an MMS RF tracking generator module covering 20 Hz to 2.9 GHz for use with HP 70000 modular spectrum analyzers. OEM MMS documentation and system interconnect materials list LO injection 3.0 to 6.6 GHz, 0 to 2.9 GHz RF output path, and 300 MHz / 21.4 MHz IF interfaces used with companion LO/IF/RF modules. Scalar frequency-response and tracking-generator measurements in HP 70000 modular spectrum analyzer systems up to 2.9 GHz. Rf Output Frequency Range: 20 Hz to 2.9 GHz Tune Span Control Voltage: 4.5 to 9.9 V class interconnect



MODEL

**Agilent / Keysight
70300A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

70300A

LISTING

<https://aumictechlabs.com/products/70300a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 70300A RF Tracking Generator is a 2-slot modular instrument that transforms 70000 series spectrum analyzers into stimulus-response measurement systems. Operating as a slave module controlled by an HP 70900A/B local oscillator, the 70300A delivers swept RF stimulus whose frequency tracks the analyzer's tuned frequency in real time. This closed-loop architecture enables precise characterization of gain, frequency response, isolation, and return loss across component and subsystem designs.

Technical Specifications

Frequency Range: 20 Hz to 2.9 GHz

Dynamic Range: Greater than 124 dB (with 70300A and 71100C)

Resolution Bandwidths: As narrow as 10 Hz for high selectivity measurements

Output Power Characteristics: Maximum leveled power: -10 dBm Amplitude control range: 0 to -91 dBm Vernier range: 11 dB with 0.01 dB resolution Power sweep range: 0 to -10 dB Output attenuator: 70 dB in 10 dB steps RF off residuals: 124 dB) permits accurate measurement of filter rejection and switch isolation without signal averaging. Sub-10 Hz resolution bandwidth enables isolation of specific signal paths in presence of adjacent interference. Fine amplitude control with 0.01 dB vernier resolution supports both swept power analysis and fixed-level stimulus applications.

Typical Applications

Scalar network analysis for two-port device characterization Filter magnitude response and stopband rejection measurement Isolation and return loss evaluation in RF components Gain flatness and frequency response analysis Switch insertion loss and port-to-port isolation testing

Compatibility & Integration

The 70300A integrates into the HP/Agilent 70000 Series modular measurement system via the Agilent 70871A scalar personality module. Control is managed through the scalar software personality. The instrument is compatible with Keysight 70000 series spectrum analyzers and lightwave signal analyzers.

70300A Characteristics / Specifications

PARAMETER	VALUE
Rf Output Frequency Range	20 Hz to 2.9 GHz
Lo Input Frequency	3.0 to 6.6 GHz
Tune Span Control Voltage	4.5 to 9.9 V class interconnect
If Interface 21.4 MHz	yes 300 MHz Interface: yes
Module Family	HP 70000 MMS tracking generator
Host Mainframe	HP 70001A class MMS mainframe
Companion Lo Module Example	HP 70900A/B
System Example	HP 71100C 2.9 GHz spectrum analyzer
Form Factor	MMS plug-in
Control Bus	MSIB via mainframe
Sweep Handshake	HSWP in/out with LO
Video Interface	video in from IF path
Rf Output Port	0 to 2.9 GHz out
Aux Tg Ports	3.6214 GHz class interconnect listed
Addressing Example Row Col	TG row/column per system map
Installation	front-load MMS module
Cooling	mainframe forced air
Power	from MMS mainframe
Emc Environment	MMS industrial system
Operating Temperature Class	MMS mainframe 0 to 55 C class
Calibration	system calibration with host SA
Remote Control	via system HP-IB master
Operating temperature	Class: MMS mainframe 0 to 55 C class

70300A Specifications

PARAMETER	VALUE
Agilent HP 70300A Tracking Generator Module	Overview
Applications	Scalar frequency-response and tracking-generator measurements in HP 70000 modular spectrum analyzer systems up to 2.9 GHz.
Key Features	20 Hz to 2.9 GHz RF tracking output
Works with HP 70900 LO family	300 MHz and 21.4 MHz IF interfaces
Technical Specifications	Rf Output Frequency Range: 20 Hz to 2.9 GHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: MMS mainframe 0 to 55 C class
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Operating Temperature Class	MMS mainframe 0 to 55 C class
Calibration	system calibration with host SA
Remote Control	via system HP-IB master Notes From HP 70000 Modular Measurement System interconnect/documentation referencing the 70300A 20 Hz-2.9 GHz tracking generator. Exact output level and flatness belong on the 70300A specifications sheet for the serial prefix.

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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PARAMETER	VALUE
Rf Output Frequency Range	20 Hz to 2.9 GHz
Lo Input Frequency	3.0 to 6.6 GHz
Tune Span Control Voltage	4.5 to 9.9 V class interconnect
If Interface 21.4 MHz	yes
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Notes

From HP 70000 Modular Measurement System interconnect/documentation referencing the 70300A 20 Hz-2.9 GHz tracking generator. Exact output level and flatness belong on the 70300A specifications sheet for the serial prefix.

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.