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Data Sheet

August 13, 2026

AGILENT / KEYSIGHT

Agilent / Keysight M9380A PXle CW Source, 1 MHz to 3 GHz or 6 GHz

Keysight M9380A PXle Continuous Wave Source 1 MHz to 6 GHz The Keysight M9380A is a modular PXle CW signal source comprising M9301A synthesizer, M9310A source output, and M9300A frequency reference modules. It delivers high output power, accurate amplitude control, and fast frequency switching for LO substitution, interference injection, and wireless component ATE. The Keysight M9380A is a modular PXle CW signal source comprising M9301A synthesizer, M9310A source output, and M9300A frequency reference modules. It delivers high output power, accurate amplitude control, and fast frequency switching for LO substitution, interference injection, and wireless component ATE.



MODEL

**Agilent / Keysight
M9380A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M9380A

LISTING

<https://aumictechlabs.com/products/m9380a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight M9380A is a modular PXle continuous wave (CW) source engineered for high-speed automated test system integration. Composed of three integrated PXle modules - the M9310A source output, M9301A synthesizer, and M9300A frequency reference - this instrument delivers stable, accurate signal generation across 1 MHz to 3 GHz or 6 GHz. Output power reaches +18 dBm to +19 dBm depending on frequency band and manufacturing revision. Phase

noise performance of < -122 dBc/Hz at 1 GHz (20 kHz offset) supports demanding component testing, local oscillator substitution, and interference injection applications.

Technical Specifications

Frequency Coverage: 1 MHz to 3 GHz (standard) or 1 MHz to 6 GHz (optional, via license key upgrade)

Output Power: +18 dBm to +19 dBm across frequency range (± 0.01 dB settable resolution). Manufacturing revision-dependent specifications apply: units with higher serial numbers support +10 dBm to +19 dBm (1 MHz to 5 GHz) and +10 dBm to +18 dBm (5 GHz to 6 GHz). Earlier revisions deliver +10 dBm to +19 dBm (1 MHz to 2.5 GHz) and +10 dBm to +18 dBm (2.5 GHz to 6 GHz).

Amplitude Accuracy: Better than ± 0.4 dB absolute; degrades ± 0.02 dB/ $^{\circ}$ C outside controlled temperature range (20–30 $^{\circ}$ C)

Phase Noise: < -122 dBc/Hz at 1 GHz (20 kHz offset); -122 dBc/Hz at 10 kHz offset

Spectral Purity: -29 dBc harmonics (at 1 GHz); -70 dBc non-harmonics (at 1 GHz)

Frequency Switching Speed: 5 ms

Frequency Stability: $< \pm 0.5$ ppb/day aging (post 72-hour warm-up); $< \pm 0.1$ ppm/year

Frequency Accuracy (Internal Timebase): ± 10 ppb (controlled temperature); ± 50 ppb (full temperature range).

Warm-up: $< \pm 0.1$ ppm (5 minutes) or $< \pm 0.01$ ppm (15 minutes) over 20–30 $^{\circ}$ C

External Reference: 1 MHz to 110 MHz sine wave input; ± 1 ppm nominal lock range

Key Features

- Compact modular architecture fits PXIe infrastructure
- Fast frequency switching supports multi-channel test sequences
- Low phase noise enables precision LO applications
- Frequency range upgradeable via software license
- VSWR specified across full frequency range

Typical Applications

- Component and subsystem RF testing
- Local oscillator substitution in receiver chains
- Interference and rejection testing
- Stimulus generation for automated measurement systems

Compatibility & Integration

Native PXIe form factor integration with high-speed data interfaces enables tight coupling to test platforms. Supports external frequency reference inputs for synchronized multi-instrument operation.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 1 MHz to 3 or 6 GHz (Option F03/F06)
- Output power up to +19 dBm at 1 MHz to 5 GHz
- Absolute amplitude accuracy plus or minus 0.4 dB
- Frequency switching less than or equal to 5 ms
- Phase noise -122 dBc/Hz at 1 GHz 20 kHz offset
- Three PXIe modules in typical configuration

Applications

- LO substitution and interference injection in ATE
- Wireless component and receiver test
- High-speed automated test with PXIe chassis
- Compact multi-module CW source in PXIe

M9380A Characteristics / Specifications

PARAMETER	VALUE
Model	M9380A
Manufacturer	Keysight
Instrument Type	PXIe Continuous Wave Source
Alias	M9380A; Keysight M9380A PXIe CW Source
Frequency range Option F	1 MHz to 3 GHz
Frequency resolution	0.01 Hz
Maximum output power 1 MHz to 5 GHz Option 1EA	+19 dBm
Maximum output power greater than 5 to 6 GHz Option 1EA	+18 dBm
Standard output power without Option 1EA	+10 dBm
Absolute level accuracy 1 MHz to 3 GHz ALC on	plus or minus 0.4 dB
Absolute level accuracy typical	plus or minus 0.15 dB
Phase noise at 1 GHz 20 kHz offset	-122 dBc/Hz
Harmonics at 1 GHz	-29 dBc
Nonharmonics at 1 GHz	-70 dBc
Frequency switching speed	less than or equal to 5 ms nominal
Pulse on/off ratio below 400 MHz	greater than 85 dB
Pulse on/off ratio above 400 MHz	greater than 95 dB
Module M9300A slots	1 PXIe
Module M9301A slots	1 PXIe
Module M9310A slots	1 PXIe
Module dimensions each	210 mm x 22 mm x 130 mm
Module weight M9300A	0.551 kg
Module weight M9301A	0.535 kg

PARAMETER	VALUE
Module weight M9310A	0.551 kg
Reference outputs M9300A	10 MHz 100 MHz OCXO SMB
Publication	Keysight 5991-0283 M9380A datasheet Notes Specs from Keysight M9380A PXIe CW Source datasheet 5991-0283. Confirm frequency option (F03/F06), high-power Option 1EA, and M9300A reference module presence in the chassis.
Maximum output power	1 MHz to 5 GHz Option 1EA: +19 dBm
Warm-up time	45 minutes

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	M9380A
Manufacturer	Keysight
Instrument Type	PXIe Continuous Wave Source
Alias	M9380A; Keysight M9380A PXIe CW Source
Frequency range Option F03	1 MHz to 3 GHz
Frequency range Option F06	1 MHz to 6 GHz
Frequency resolution	0.01 Hz
Maximum output power 1 MHz to 5 GHz Option 1EA: +19 dBm Maximum output power greater than 5 to 6 GHz Option 1EA: +18 dBm Standard output power without Option 1EA: +10 dBm Absolute level accuracy 1 MHz to 3 GHz ALC on: plus or minus 0.4 dB Absolute level accuracy typical: plus or minus 0.15 dB Phase noise at 1 GHz 20 kHz offset: -122 dBc/Hz	
Specifications	
PARAMETER	VALUE
Harmonics at 1 GHz	-29 dBc
Nonharmonics at 1 GHz	-70 dBc
Frequency switching speed	less than or equal to 5 ms nominal
Pulse on/off ratio below 400 MHz	greater than 85 dB
Pulse on/off ratio above 400 MHz	greater than 95 dB
Warm-up time: 45 minutes	
Specifications	
PARAMETER	VALUE
Module M9300A slots	1 PXIe
Module M9301A slots	1 PXIe
Module M9310A slots	1 PXIe
Module dimensions each	210 mm x 22 mm x 130 mm

PARAMETER	VALUE
Module weight M9300A	0.551 kg
Module weight M9301A	0.535 kg
Module weight M9310A	0.551 kg
Reference outputs M9300A	10 MHz 100 MHz OCXO SMB
Publication	Keysight 5991-0283 M9380A datasheet

Notes
Specs from Keysight M9380A PXIe CW Source datasheet 5991-0283. Confirm frequency option (F03/F06), high-power Option 1EA, and M9300A reference module presence in the chassis.

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.