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Data Sheet
August 14, 2026

FLUKE

Fluke 6082A â€“ Synthesized RF Signal Generator

Fluke 6082A Synthesized RF Signal Generator The Fluke 6082A isahigh-performance synthesized RF signal generator covering 100 kHz to 2112 MHz with exceptional spectral purity. AM FM phase and pulse modulation can be combined for complex receiver and LO substitution testing. High-performance receiver test, LO substitution, RF design stimulus, and ATE requiring low phase noise and wide level range. Phase noise about minus 131 dBc/Hz at 1 GHz 20 kHz offset The Fluke 6082A isahigh-performance synthesized RF signal generator covering 100 kHz to 2112 MHz with exceptional spectral purity. AM FM phase and pulse modulation can be combined for complex receiver and LO substitution testing. High-performance receiver test, LO substitution, RF design stimulus, and ATE requiring low phase noise and wide level range. Phase noise about minus 131 dBc/Hz at 1 GHz 20 kHz offset Nonharmonic spurious about minus 100 dBc at 1 GHz

MODEL	CALIBRATION
Fluke 6082A	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
6082A	https://aumictechlabs.com/products/6082a-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 6082A is a synthesized RF signal generator engineered for RF testing across communication, aerospace, and defense applications. Operating from 100 kHz to 2112 MHz with 0.001 Hz resolution, it delivers output power from -140 dBm to +19 dBm (with overranging to +20

dBm) into a 50 Ω nominal impedance. The instrument combines exceptional spectral purity - phase noise of -131 dBc/Hz at 1 GHz (20 kHz offset) and non-harmonic spurious below -100 dBc - with versatile modulation. AM, FM, pulse, and phase modulation operate independently or combined, with FM deviation to 8 MHz across rates from 0 to 100 kHz. Pulse rise time is <15 ns typical, and the internal modulation oscillator provides coherence with the RF carrier. Linear and logarithmic frequency or amplitude sweeps operate over 1 ms to 1000 s with digital control. Output level accuracy ranges from ±1 dB (0.4–2112 MHz) to ±2 dB (0.1–0.4 MHz), with ±1 dB flatness at +10 dBm. A fixed 20 dB attenuator vernier delivers transient-free switching in 0.1 dB steps. The instrument supports FSK and ASK modulation types and includes IEEE-488 (GPIB) control with emulation modes for Fluke 6060/6070 compatibility. Technical Specifications Frequency Range: 100 kHz to 2112 MHz, 0.001 Hz resolution Output Power: -140 dBm to +19 dBm (±1 dB accuracy, 0.4–2112 MHz); ±1 dB flatness Output Impedance: 50 Ω nominal Phase Noise: -131 dBc/Hz at 1 GHz (20 kHz offset) Non-Harmonic Spurious: <-100 dBc below 1056 MHz; <-94 dBc above 1056 MHz FM Deviation: Up to 8 MHz; FM rates 0–100 kHz Pulse Rise Time: <15 ns typical (<7.5 ns typical); 80 dB on/off ratio Modulation Bandwidth: 500 kHz Sweep Range: 1 ms to 1000 s; linear or logarithmic Attenuator: 20 dB vernier, 0.1 dB resolution, transient-free Control Interface: IEEE-488 (GPIB) Key Features Combined AM, FM, pulse, and phase modulation for complex signal synthesis Coherent internal modulation oscillator enabling RF-carrier-coherent pulse waveforms FSK and ASK capability Digital frequency and amplitude sweep with 4096 maximum steps X-axis (0 to +10 V ±10%) and Z-axis (TTL) sweep outputs Low 1.5 Hz residual FM Typical Applications RF receiver and transceiver testing Modulation performance validation Spectral purity and spurious measurement Aerospace and defense signal simulation Compatibility & Integration IEEE-488 (GPIB) standard interface with Fluke 6060/6070 software emulation modes.

6082A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	100 kHz to 2112 MHz
Frequency Resolution	1 Hz
Display Digits Frequency	10
Internal Reference	10 MHz TCXO
Reference Temperature Stability	less than plus or minus 1 ppm p-p 0 to 50 C
Reference Aging Typical	less than plus or minus 1 ppm per year
Reference Output	10 MHz about 0 dBm into 50 Ohm
RF Level Range Below 1056 MHz	+16 to minus 140 dBm
RF Level Range 1056 to 2112 MHz	+13 to minus 140 dBm
RF Level Resolution	0.1 dB
Subharmonics 1056 to 2112 MHz	less than minus 45 dBc
Spurious Offsets Greater Than 10 kHz Below 1056 MHz	less than minus 100 dBc
Spurious Offsets Greater Than 10 kHz Above 1056 MHz	less than minus 94 dBc
Residual FM Class	about 1.5 Hz at high performance settings
Modulation Types	AM FM Phase Pulse
FM Peak Deviation Class	to 8 MHz
FM Rates Class	DC to 100 kHz
Output Impedance	50 Ohm
Form Factor	Benchtop synthesized generator
Remote Interface	GPIB
Carrier Bands	A throughHcovering 0.1 to 2112 MHz
Overrange Level Class	+19 dBm class with overranging literature
Underrange Level Class	minus 147 dBm class with underranging literature

6082A Specifications

PARAMETER	VALUE
Fluke 6082A Synthesized RF Signal Generator	Overview
Applications	High-performance receiver test, LO substitution, RF design stimulus, and ATE requiring low phase noise and wide level range.
Key Features	Phase noise about minus 131 dBc/Hz at 1 GHz 20 kHz offset
Technical Specifications	Frequency Range: 100 kHz to 2112 MHz
Notes	Specs from Fluke 6080A/6082A synthesized RF signal generator service/user literature.

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.

performance synthesized RF signal generator covering 100 kHz to 2112 MHz with exceptional spectral purity. AM FM phase and pulse modulation can be combined for complex receiver and LO substitution testing.

Applications
High-performance receiver test, LO substitution, RF design stimulus, and ATE requiring low phase noise and wide level range.

Key Features
Phase noise about minus 131 dBc/Hz at 1 GHz 20 kHz offset
Nonharmonic spurious about minus 100 dBc at 1 GHz
AM FM phase and pulse modulation combinable
Electronic level control wide dynamic range
GPIB programmable systems generator

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Frequency Range	100 kHz to 2112 MHz
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RF Level Resolution	0.1 dB

Harmonics Below +13 dBm: less than minus 30 dBc 1 to 2112 MHz
Subharmonics 1056 to 2112 MHz: less than minus 45 dBc
Spurious Offsets Greater Than 10 kHz Below 1056 MHz: less than minus 100 dBc
Spurious Offsets Greater Than 10 kHz Above 1056 MHz: less than minus 94 dBc

Specifications

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Modulation Types	AM FM Phase Pulse
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Output Impedance	50 Ohm
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Notes
Specs from Fluke 6080A/6082A synthesized RF signal generator service/user literature.

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.