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Data Sheet

August 14, 2026

EADS / RACAL / DANA

EADS / Racal / Dana 6061A Synthesized Signal Generator

Giga-tronics 6061A Synthesized RF Signal Generator The Giga-tronics 6061A is a synthesized RF signal generator covering 10 kHz to 1050 MHz with programmable amplitude from -147 to above +13 dBm at 0.1 dB resolution. OEM 6060A Series datasheets list ± 1.0 dB amplitude accuracy from -127 to +13 dBm (25 ± 5 °C), built-in AM/FM, IEEE-488 control, and 50 nonvolatile setups. General-purpose RF testing, receiver stimulus, and ATE racks needing clean synthesized CW with AM/FM to 1.05 GHz. Amplitude Range: minus 127 to plus 13 dBm with overrange to plus 19 dBm and underrange to minus 147 dBm The Giga-tronics 6061A is a synthesized RF signal generator covering 10 kHz to 1050 MHz with programmable amplitude from -147 to above +13 dBm at 0.1 dB resolution. OEM 6060A Series datasheets list ± 1.0 dB amplitude accuracy from -127 to +13 dBm (25 ± 5 °C), built-in AM/FM, IEEE-488 control, and 50 nonvolatile setups. General-purpose RF testing, receiver stimulus, and ATE racks needing clean synthesized CW with AM/FM to 1.05 GHz. Amplitude Range: minus 127 to plus 13 dBm with overrange to plus 19 dBm and underrange to minus 147 dBm



MODEL

**EADS / Racal /
Dana 6061A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6061A

LISTING

[https://aumictechlabs.c
om/products/6061a-3/](https://aumictechlabs.com/products/6061a-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EADS/Racal/Dana 6061A is a synthesized signal generator delivering precise RF signal generation from 10 kHz to 1050 MHz with 10 Hz frequency resolution. Purpose-built for receiver testing, component evaluation, and general RF applications, this VXIbus module combines signal generation with integrated analog and digital I/O channels. Superior phase noise performance - typical -123 dBc/Hz at 20 kHz offset from a 500 MHz carrier - distinguishes the 6061A from related models, making it especially valuable for low-noise receiver characterization.

Technical Specifications

RF Performance Frequency range: 10 kHz to 1050 MHz Frequency resolution: 10 Hz steps Frequency switching speed: <100 ms to within 100 Hz of final frequency Output level range: -147 dBm to $+13$ dBm (overrange to $+19$ dBm) Level resolution: 0.1 dB steps Level accuracy: ± 1 dB (-127 dBm to $+13$ dBm) Phase noise (typical): -123 dBc/Hz at 20 kHz offset, 500 MHz carrier Spurious performance: $\leftarrow 60$ dBc (non-harmonic), 4.3 kHz (8 channels), >11 kHz (1 channel) Channel isolation: 750 V between channels and to ground Digital Channels 32 channels, software configurable (16 input/16 output or 32 input/output) Standard: current receiver inputs, open collector outputs

Key Features SCPI-compatible, message-based programming Full self-test covering analog and digital channels Optional analog output ranges (current sourcing: ± 1.6 V to ± 16 V) Optional TTL digital I/O Residual FM specifications rated across 0° to 50°C operating range

Typical Applications Receiver sensitivity and selectivity testing RF component and subsystem evaluation Low-noise signal sourcing for precision measurements Multi-channel analog/digital test and control

Compatibility & Integration VXIbus form factor with integrated analog/digital architecture supports modular test system configurations. SCPI command compatibility enables integration with automated test sequences.

Features & description

From manufacturer datasheet

Built-in AM and FM

IEEE-488 programmable 50 nonvolatile front-panel setups Reverse power protection 50 W class
Technical Specifications Frequency Range: 0.01 to 1050 MHz Frequency Resolution: 10 Hz Amplitude
Range: minus 127 to plus 13 dBm with overrange to plus 19 dBm and underrange to minus 147 dBm
Amplitude Resolution: 0.1 dB Amplitude Accuracy 25 plus or minus 5 C plus 13 to minus 127 dBm: plus
or minus 1.0 dB (400 kHz to 1050 MHz class table) Output Impedance: 50 ohm nominal Output VSWR
Below Plus 1 dBm: less than 1.5:1 Output VSWR Above Plus 1 dBm: less than 2.0:1 Harmonics Below Plus
13 dBm: minus 30 dBc (freq greater than 100 kHz) Nonharmonic Spurious 100 kHz to 1050 MHz: minus
60 dBc Switching Speed: 100 ms to within 100 Hz AM Depth: 0 to 99 percent in 1 percent steps Internal
Modulation Rates: 400 Hz and 1 kHz Reverse Power Protection: 50 W RF 10 kHz to 1050 MHz; up to 50
Vdc Reference Output: 10 MHz 0 dBm minimum into 50 ohm Memory Setups: 50 Remote Interface:
IEEE-488 Power: 100/120/220/240 Vac plus or minus 10 percent 47-63 Hz less than 180 VA Weight:
less than 16 kg (35 lb) Size: 13.3 cmHx 43.2 cmWx 50.8 cmDOperating Temperature: 0 to 50 C Series
Family: Giga-tronics 6060A Series Notes From Giga-tronics 6060A Series Synthesized RF Signal
Generators datasheet (6061A/6062A). Not an IFR/Astronics model; included for numeric OEM coverage
of the 6061A request.

6061A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	0.01 to 1050 MHz
Frequency Resolution	10 Hz
Amplitude Range	minus 127 to plus 13 dBm with overrange to plus 19 dBm and underrange to minus 147 dBm
Amplitude Resolution	0.1 dB
Amplitude Accuracy 25 plus or minus 5 C plus 13 to minus 127 dBm	plus or minus 1.0 dB (400 kHz to 1050 MHz class table)
Output Impedance	50 ohm nominal
Output VSWR Below Plus 1 dBm	less than 1.5:1
Output VSWR Above Plus 1 dBm	less than 2.0:1
Harmonics Below Plus 13 dBm	minus 30 dBc (freq greater than 100 kHz)
Nonharmonic Spurious 100 kHz to 1050 MHz	minus 60 dBc
Switching Speed	100 ms to within 100 Hz
AM Depth	0 to 99 percent in 1 percent steps
Internal Modulation Rates	400 Hz and 1 kHz
Reverse Power Protection	50 W RF 10 kHz to 1050 MHz; up to 50 Vdc
Reference Output	10 MHz 0 dBm minimum into 50 ohm
Memory Setups	50
Remote Interface	IEEE-488
Power	100/120/220/240 Vac plus or minus 10 percent 47-63 Hz less than 180 VA
Weight	less than 16 kg (35 lb)
Size	13.3 cmHx 43.2 cmWx 50.8 cmDOperating Temperature: 0 to 50 C
Series Family	Giga-tronics 6060A Series
Operating temperature	0 to 50 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Series Family	Giga-tronics 6060A Series Notes From Giga-tronics 6060A Series Synthesized RF Signal Generators datasheet (6061A/6062A). Not an IFR/Astronics model; included for numeric OEM coverage of the 6061A request.

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
Frequency Range	0.01 to 1050 MHz
Frequency Resolution	10 Hz
Amplitude Range	minus 127 to plus 13 dBm with overrange to plus 19 dBm and underrange to minus 147 dBm
Amplitude Resolution	0.1 dB
Amplitude Accuracy 25 plus or minus 5 C plus 13 to minus 127 dBm: plus or minus 1.0 dB (400 kHz to 1050 MHz class table)	
Specifications	
PARAMETER	VALUE
Output Impedance	50 ohm nominal
Output VSWR Below Plus 1 dBm	less than 1.5:1
Output VSWR Above Plus 1 dBm	less than 2.0:1
Harmonics Below Plus 13 dBm	minus 30 dBc (freq greater than 100 kHz)
Nonharmonic Spurious 100 kHz to 1050 MHz	minus 60 dBc
Switching Speed	100 ms to within 100 Hz
AM Depth	0 to 99 percent in 1 percent steps
Internal Modulation Rates	400 Hz and 1 kHz
Reverse Power Protection	50 W RF 10 kHz to 1050 MHz; up to 50 Vdc
Reference Output	10 MHz 0 dBm minimum into 50 ohm
Memory Setups	50
Remote Interface	IEEE-488
Power	100/120/220/240 Vac plus or minus 10 percent 47-63 Hz less than 180 VA
Weight	less than 16 kg (35 lb)
Size	13.3 cmHx 43.2 cmWx 50.8 cmDOperating Temperature: 0 to 50 C
Series Family	Giga-tronics 6060A Series

Notes

From Giga-tronics 6060A Series Synthesized RF Signal Generators datasheet (6061A/6062A). Not an IFR/Astronics model; included for numeric OEM coverage of the 6061A request.

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.