

Microwave Power Amplifier

10 MHz to 50 GHz

Key Features

- GT-1000A
5 Watts to 20 GHz
- GT-1020A
½ Watt to 20 GHz
- GT-1026A
½ Watt to 26.5 GHz
- GT-1040A
¼ Watt to 40 GHz
- GT-1050A / GT-1051A
½ Watt to 40 GHz
¼ Watt to 50 GHz
- Broadband, linear, low-noise, high gain
- Harmonics < -30 dBc
- Spurious < -60 dbc
- Rugged solid-state reliability
- Safe low-voltage operation
- No aging characteristics and fault tolerant

Introduction

The Giga-tronics GT-1000A series of Microwave Power Amplifiers offer linear high-power amplification across multi-octave bandwidths.

Ideal for testing in wireless communications applications and Defense EW systems.

The GT-1000A series deliver outstanding performance and exceptional value.

These broadband power amplifiers provide power enhancement for ATE, semiconductor evaluation and general purpose microwave laboratory applications.

Excellent pulse performance and modulated signal fidelity makes these amplifiers ideal for defense EW and radar testing.

Benefits

- 10 MHz to 50 GHz performance eliminates the need for band switching providing reduced cost and complexity while increasing reliability.
- The solid-state parallel MMIC design delivers high reliability and long life.
- Excellent linearity with high gain, low noise figure and low intermodulation distortion.



From 5 Watts at 20 GHz to ¼ Watt at 50 GHz

The GT-1000A Microwave Power Amplifier can be paired with the Giga-tronics 2520B Microwave Signal Generator to deliver output power of 5 Watts to 20 GHz. The GT-1050A Microwave Power Amplifier can be paired with the Giga-tronics 2550B Microwave Signal Generator to deliver output power of ¼ Watt to 50 GHz and ½ Watt to 40 GHz for CW or pulsed applications. Have the power you need to overcome cable and switching losses or to drive components like higher power mixers and detectors, including testing of power sensors to 50 GHz.

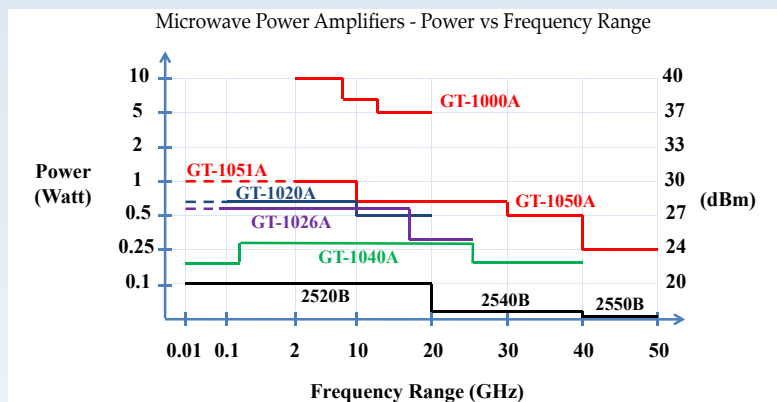


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Use the Giga-tronics Microwave Power Amplifiers as general purpose R&D lab amplifiers or integrate into your ATE systems for manufacturing test. Build the amplifiers into a test head to provide high power at the device under test.

Microwave Lab and Antenna Range Applications

Replace traveling wave tube amplifiers with high reliability, solid-state amplifiers for improved noise performance and reduced intermodulation distortion (IMD). Test broadband microwave devices without changing transmission paths or exchanging amplifiers manually. Eliminate complex programming caused by manual switching of amplifiers during test. Do away with plugging and unplugging amplifiers in manual test stations by replacing narrow band amplifiers with one broadband amplifier.



About Giga-tronics:

Founded in 1980, Giga-tronics Incorporated (Nasdaq "GIGA"), an ISO 9001 and AS 9100 certified company, headquartered in San Ramon, California, is a leading engineering-and-design manufacturer of best-in-class RF and microwave signal generators, microwave power amplifiers, USB power sensors, microwave power meters and broadband switching matrices. R&D, production and test managers, scientists, engineers and technicians, around the world, use Giga-tronics test equipment to realize higher productivity and greater ease of use in many applications: ATE systems, aerospace & defense, communications and general microwave component test.



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