

GT-1000A Microwave Power Amplifier

Frequency Range

2 GHz to 20 GHz

Output Power

Output power is specified as minimum saturated power into 50 Ohm load with 0 dBm input. Input power for normal operation should be limited to +3 dBm maximum.

Range	Specification*
2 to 2.5 GHz	+41.5 dBm (14 Watts) typical, +38.7 dBm (7.5 Watts) minimum
2.5 to 10 GHz	+42 dBm (15 Watts) typical, +39.5 dBm (9 Watts) minimum
10 to 18 GHz	+42 dBm (15 Watts) typical, +38.4 dBm (7 Watts) minimum
18 to 20 GHz**	+41.5 dBm (14 Watts) typical, +38.4 dBm (7 Watts) minimum

* Note: Output power with Option 01 is decreased by 1 dB

** Note: Output power typical with Option 02 and Option 03 (Type-N output connector)

Gain Flatness

Nominal gain is 40 dB. Gain adjustment range is 10 dB minimum.

Gain flatness is specified as maximum variation with 0 dBm input and 50 Ohm load.

Range	Specification
2 to 20 GHz	+/- 2.5 dB maximum
2 to 6 GHz	+/- 1.5 dB maximum
6 to 10 GHz	+/- 1.5 dB maximum
10 to 18 GHz	+/- 2.0 dB maximum
18 to 20 GHz	+/- 2.0 dB maximum

Input and Output VSWR

Input: 50 Ohms, 2:1 maximum

Output: 50 Ohms, 2.3:1 maximum

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Additional Specifications

Parameter	Specification
Stability	Unconditionally Stable
Maximum Load VSWR	5:1
Harmonic Distortion*	< -30 dBc typical
Spurious*	< -60 dBc typical
Noise Figure	< 10 dB typical, < 14 dB maximum
Phase Linearity	20 degrees typical

* Note: Harmonics and spurious measured at -5 dBm input power level

General Specifications

Line Voltage	85 to 264 VAC, 47 to 63 Hz, Single Phase
Line Power	300 VA maximum
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +75°C
Cooling	Forced air, field replaceable fans
Rack Height	3U (5.25")
Dimensions*	5.25" H x 17" W x 20" D (134 mm H x 432 mm W x 508 mm D)
Weight	< 35 lbs (< 16 kg)
Environmental	MIL-PRF-28800F, Class 3
Safety	EN61010
Emissions	EN61326

* Note: Dimensions with rack ears, 5.25" H x 19" W x 21" D (134 mm H x 483 mm W x 534 mm D)