

Features

- ◆ Broadband Power Amplifier
- ◆ Class AB design
- ◆ Built-in protection circuits
- ◆ High reliability and ruggedness
- ◆ 50 ohm input/output impedance



Applications

- ◆ Test Equipment
- ◆ Communication Systems

Electrical Specifications: 50Ω, 25°C

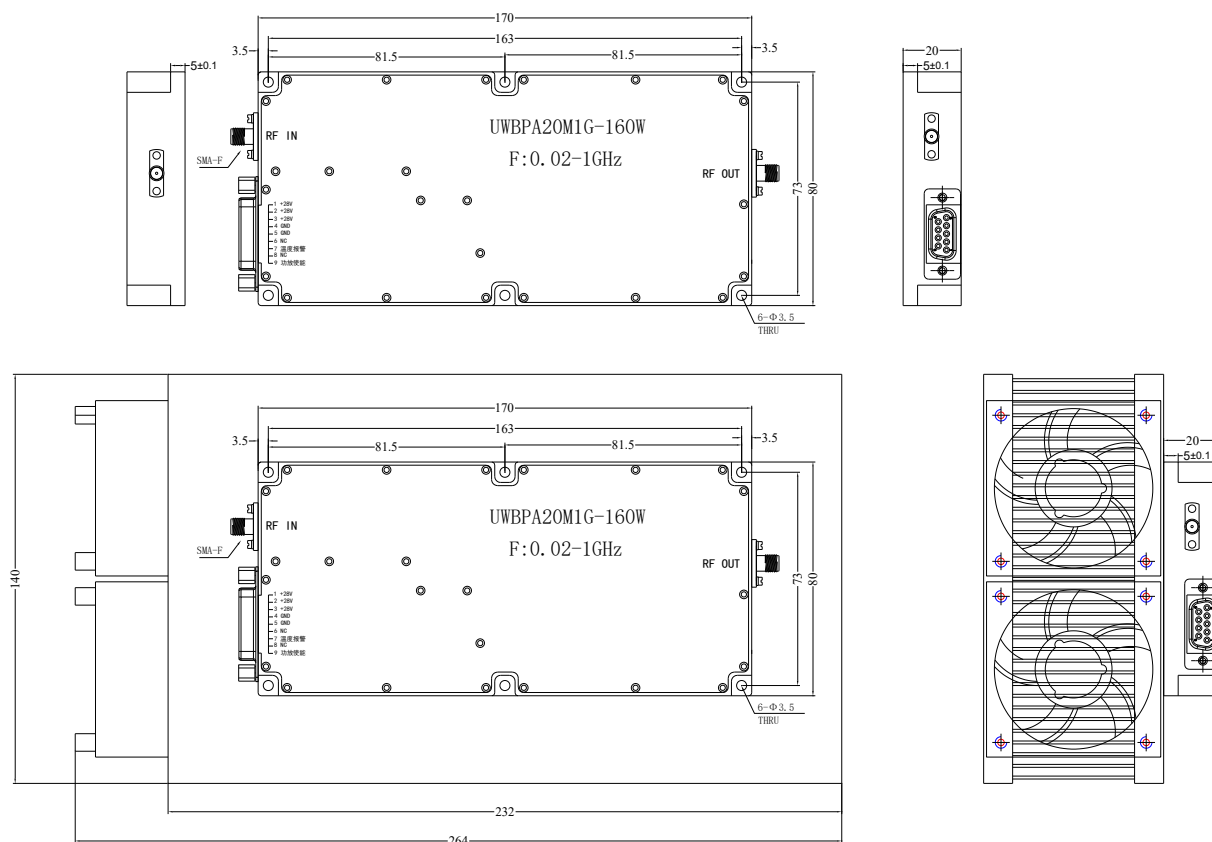
Parameter	Min	Typ	Max	Units
Operating Frequency	20		1000	MHz
RF Power Output CW	51	52		dBm
Output Power for 1 dB Compression (P1dB)		47		dBm
Gain	47	50		dB
Gain Flatness		±3		dB
Input VSWR		1.5		:1
Harmonics		-10		dBc
IMD3, 2-Tone @ 44dBm/Tone, 1MHz Spacing		-20		dBc
Spurious			-60	dBc
Supply Voltage	30	32	34	V
Supply Current(VCC=32V)		2.5	20	A
Input RF drive level without damage			+5	dBm

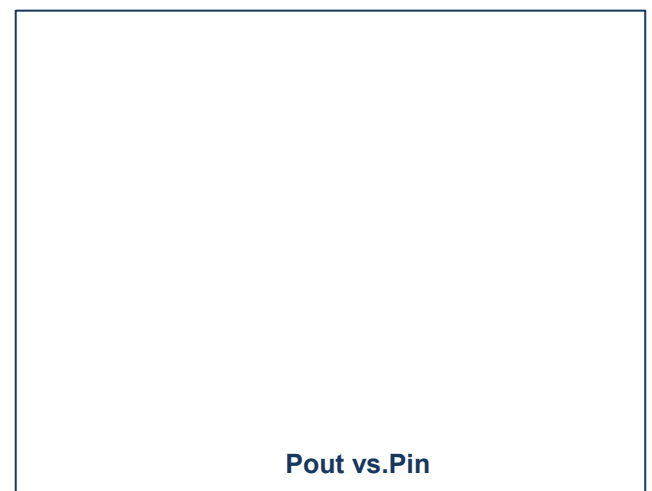
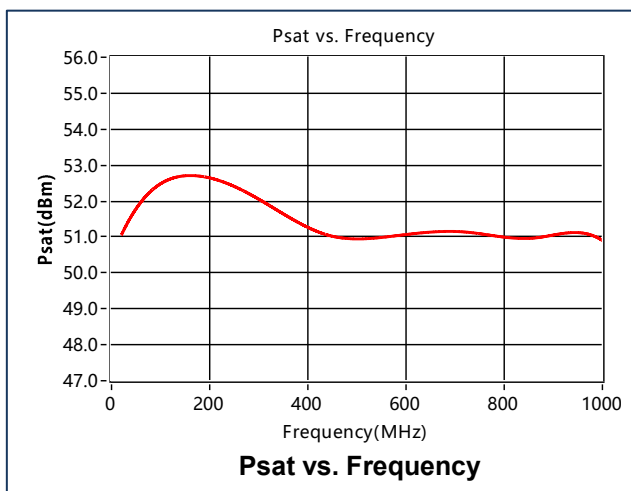
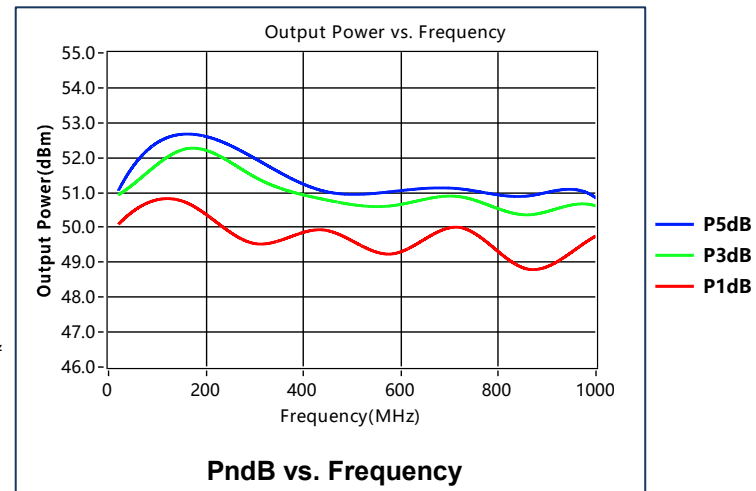
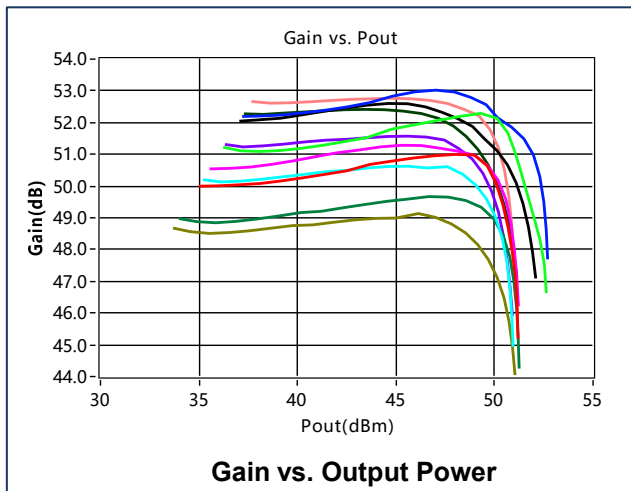
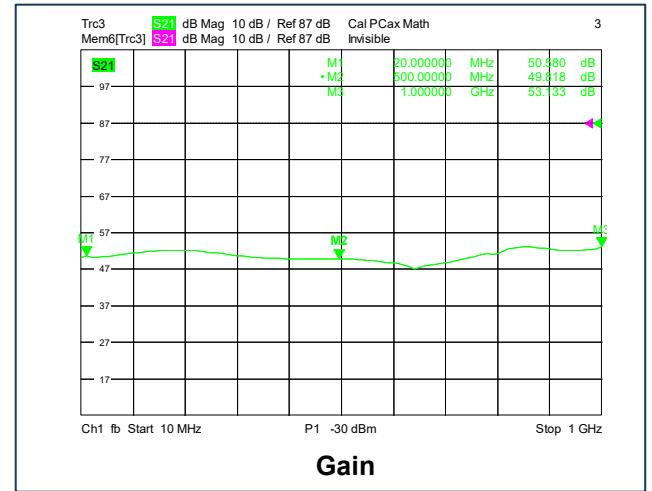
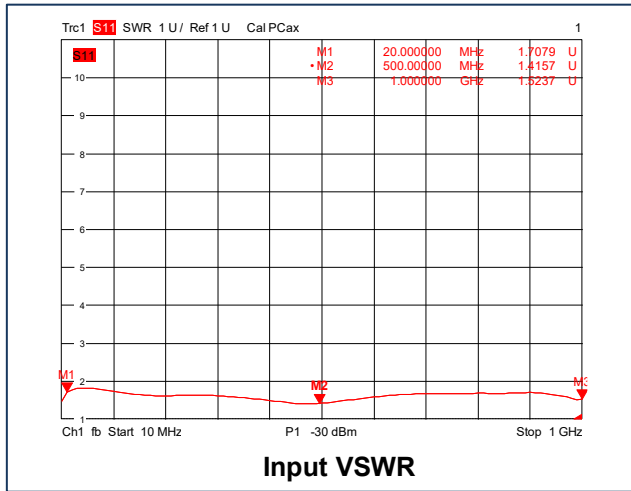
Environmental Specifications

Operating Case Temperature	-30°C to +70°C
Storage Temperature	-50°C to +105°C

Mechanical Specifications

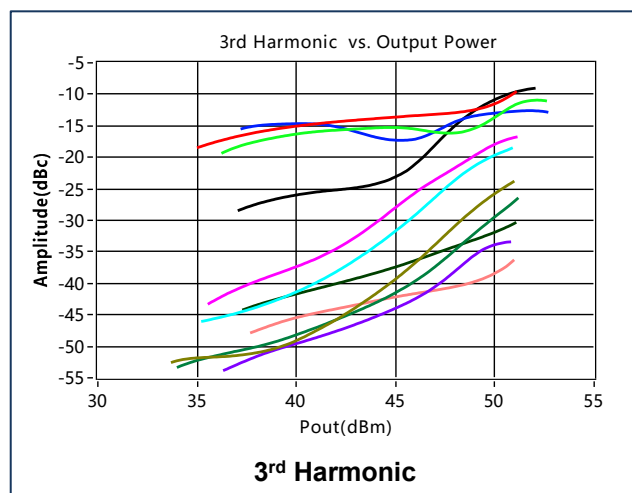
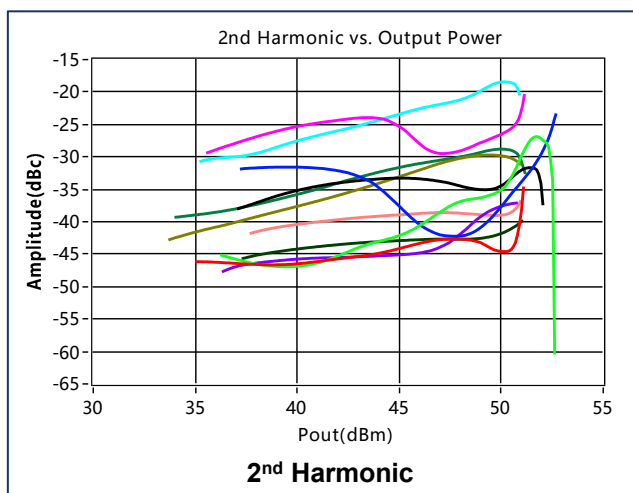
Dimensions (Excluding Connectors)	170 X 80 X 20 mm
RF Connectors	SMA-Female
DC Interface Connector	D-SUB-9
Weight	-
Cooling	Forced air required (Option)





Current VS. Output Power

PAE vs. Frequency



Left IM3 vs. Pout

Right IM3 vs. Pout

DC Interface Connector: D-sub, 9-Pin, Female

Pin #	Name	Function
1	VDD	+30.0-34.0VDC
2	VDD	+30.0-34.0VDC
3	VDD	+30.0-34.0VDC
4	GND	Ground
5	GND	Ground
6	NC	Not connected
7	TEMP	When the temperature of the case exceeds 70 °C, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 60 °C, the power amplifier will return to normal operation, and this pin will be pulled low.
8	NC	Not connected
9	PA-EN	Amplifier Enable: TTL Logic High (5V) (Internally Pulled-High)