

Features

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

Applications

- ◆ Test Equipment
- ◆ Communication Systems



Electrical Specifications: 50Ω, 25°C

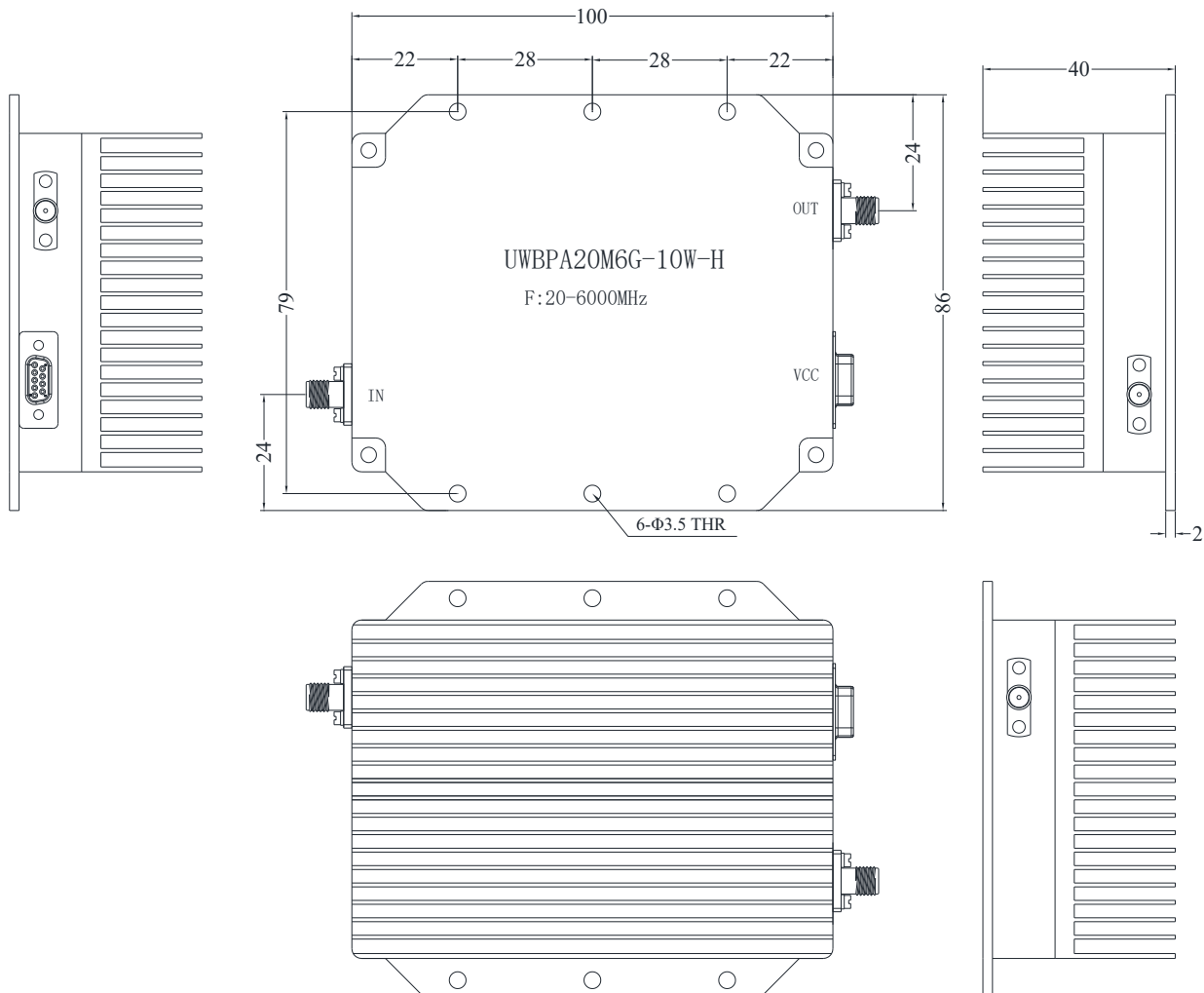
Parameter	Min	Typ	Max	Units
Operating Frequency	0.02		6	GHz
RF Power Output CW	39	40		dBm
Output Power for 1 dB Compression (P1dB)				dBm
Gain	37	40		dB
Gain Flatness		±3		dB
Gain Variation Over Temperature (-30°C to +65°C)		±4		dB
Input VSWR		1.5		:1
Harmonics		-10		dBc
IMD3, 2-Tone @ 27dBm/Tone, 1MHz Spacing		-20		dBc
Spurious			-60	dBc
Isolation S12		-45		dB
Supply Voltage		28		V
Supply Current		0.5	2	A
Input RF drive level without damage			+8	dBm

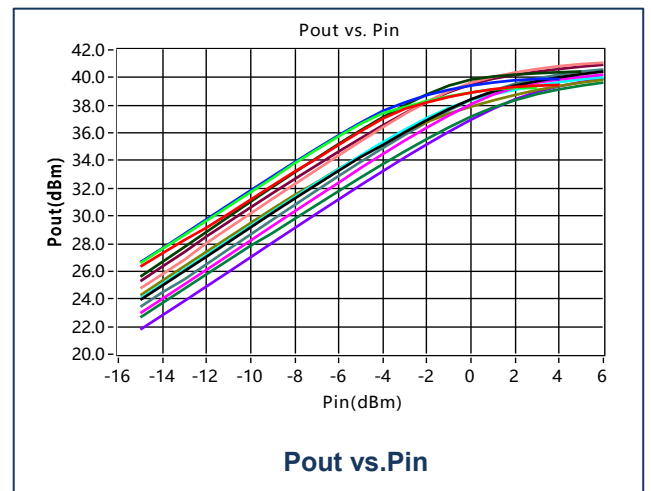
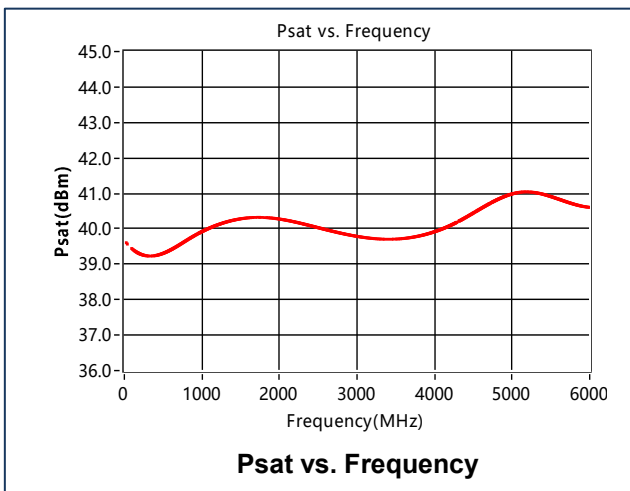
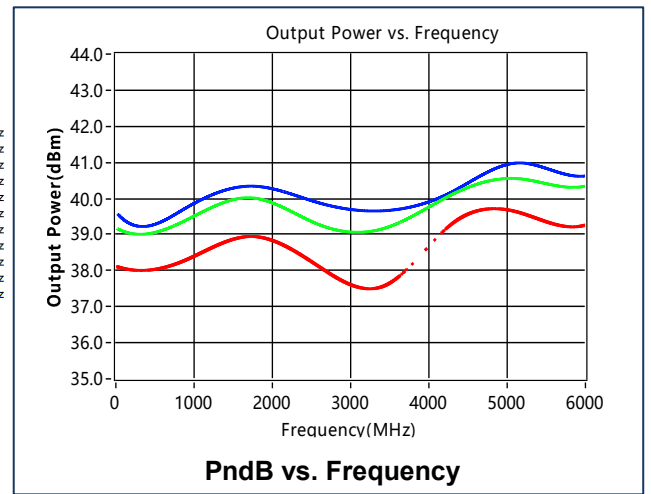
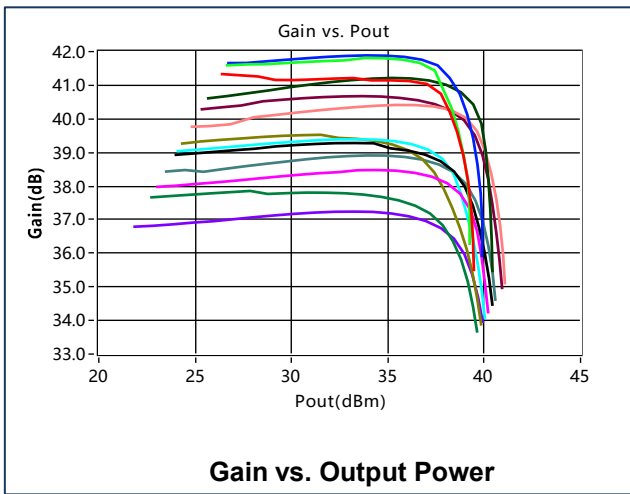
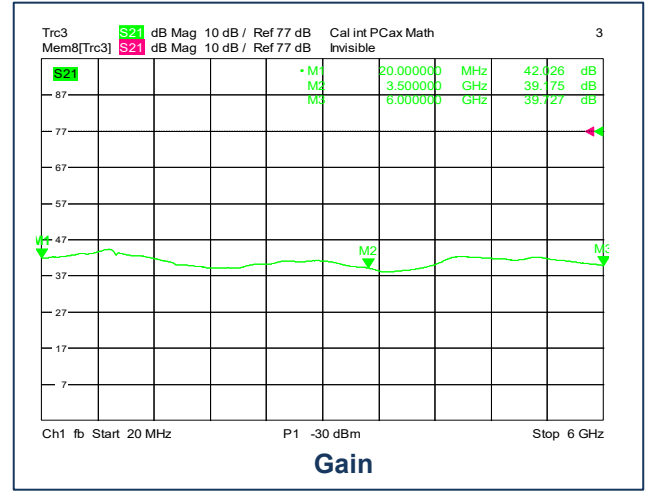
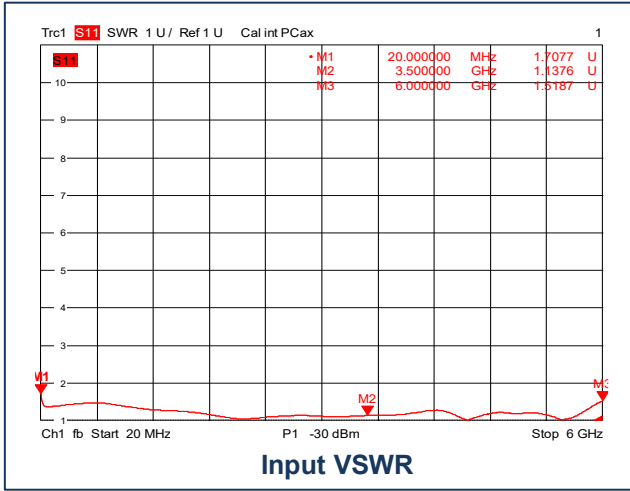
Environmental Specifications

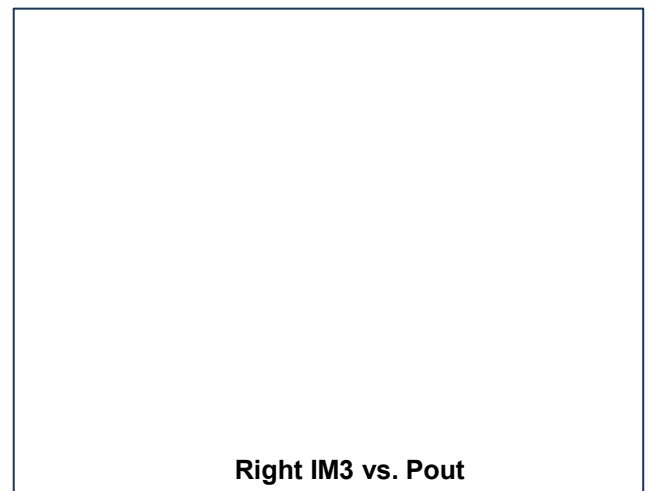
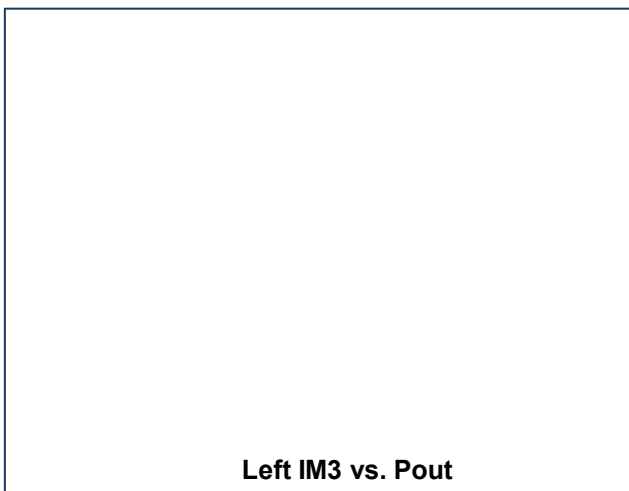
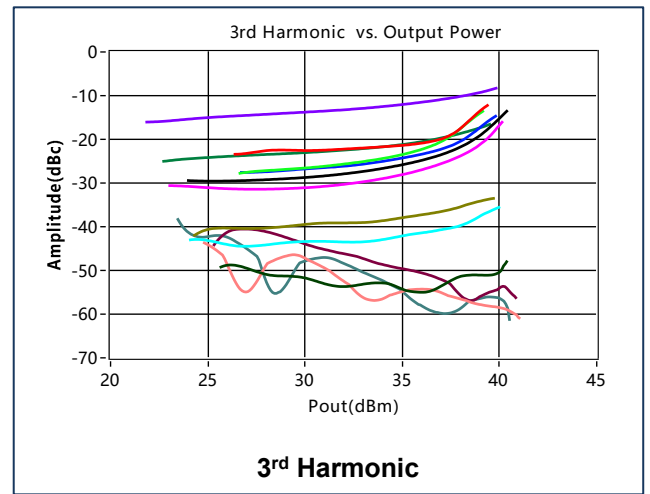
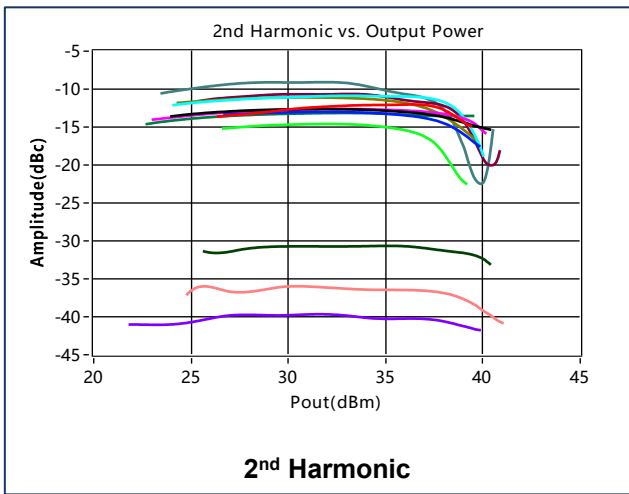
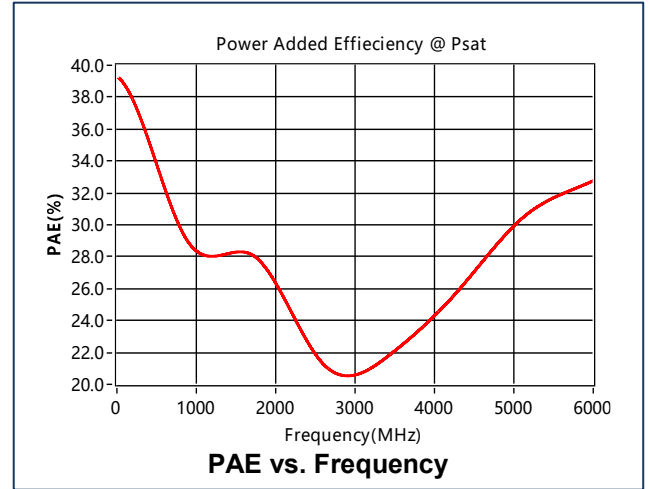
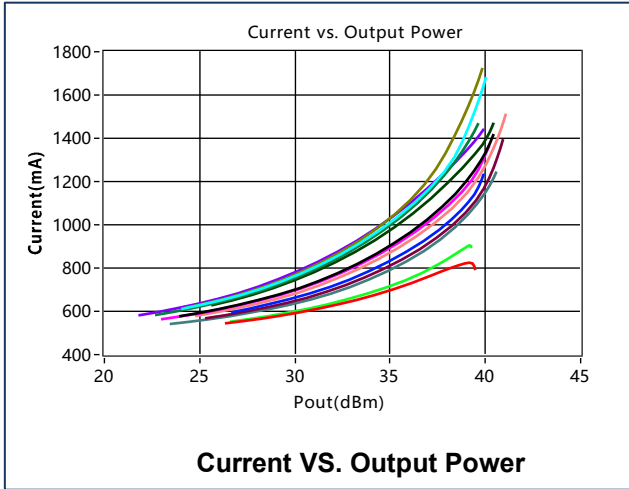
Operating Case Temperature	-30°C to +60°C
Storage Temperature	-50°C to +105°C

Mechanical Specifications

Dimensions (Excluding Connectors)	100 X 86 X 40 mm
RF Connectors	SMA-Female
DC Interface Connector	J30J-9
Weight	-
Cooling	Forced air required







DC Interface Connector: J30J-9ZKW-J

Pin #	Name	Function
1	PA-EN	Amplifier Enable: TTL Logic High (5V) (Internally Pulled-High)
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	+28V	+26. 0-30. 0VDC
7	+28V	+26. 0-30. 0VDC
8	+28V	+26. 0-30. 0VDC
9	+28V	+26. 0-30. 0VDC