RFUWB
ULTRA WIDEBAND TECHNOLOGIES

Broadband Power Amplifier
UWBPA1G6GB-50W

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℃

Parameter	Min	Typ	Max	Units
Operating Frequency	1		6	GHz
RF Power Output CW	46.5	47		dBm
Output Power for 1 dB Compression (P1dB)	43	45		dBm
Gain	53	57		dB
Gain Flatness		±3	±4	dB
Input VSWR		1.5		:1
Harmonics		-15	-10	dBc
Spurious			-60	dBc
Supply Voltage	26	28	30	V
Supply Current(VCC=28V)		7	7.5	A
Input RF drive level without damage			0	dBm

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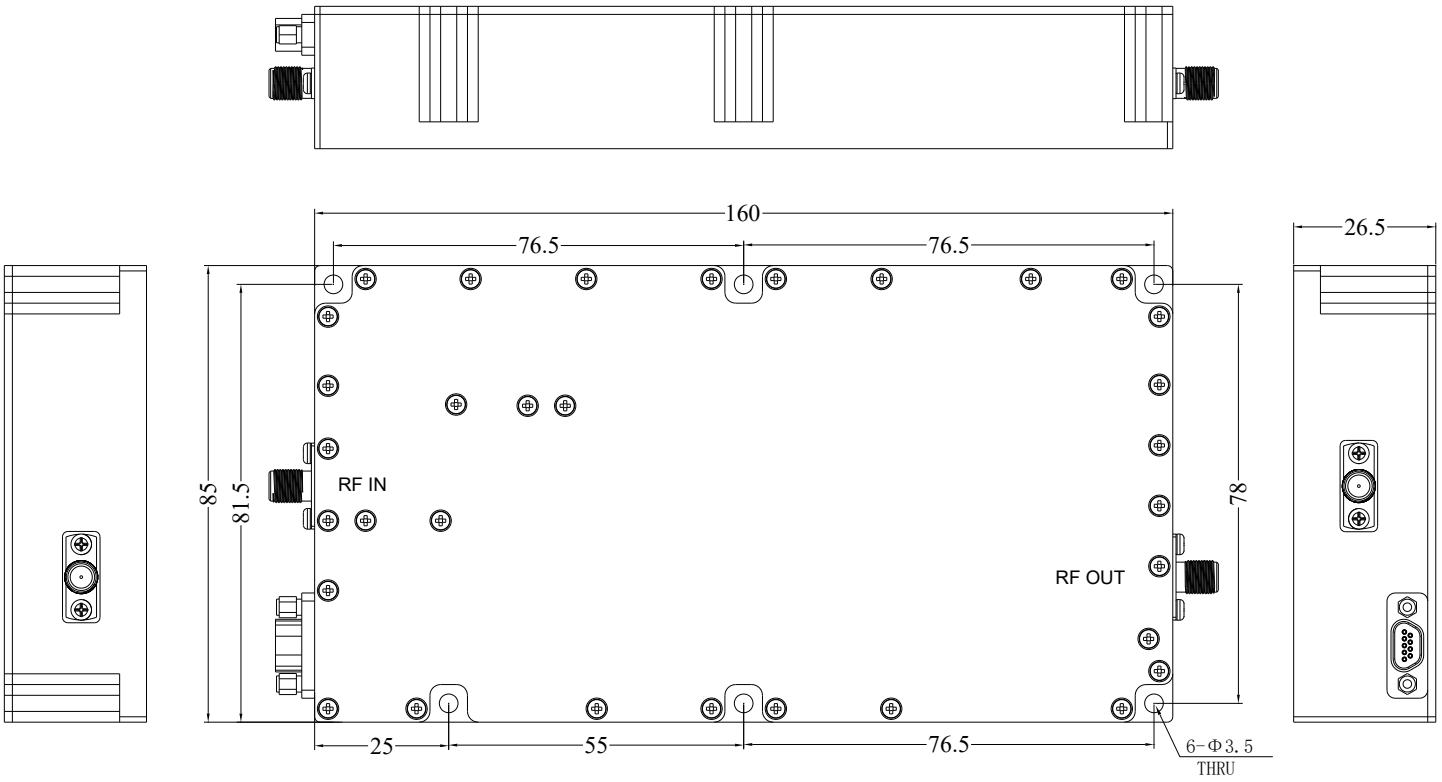
Environmental Specifications

Operating Case Temperature	-30ºC to +70ºC
Storage Temperature	-50ºC to +105ºC

Mechanical Specifications

Dimensions (Excluding Connectors)	160 X 85 X 26.5 mm
RF Connectors	RF IN:SMA-Female RF OUT:SMA-Female
DC Interface Connector	D-SUB-9
Weight	-
Cooling	Forced air required (Option)



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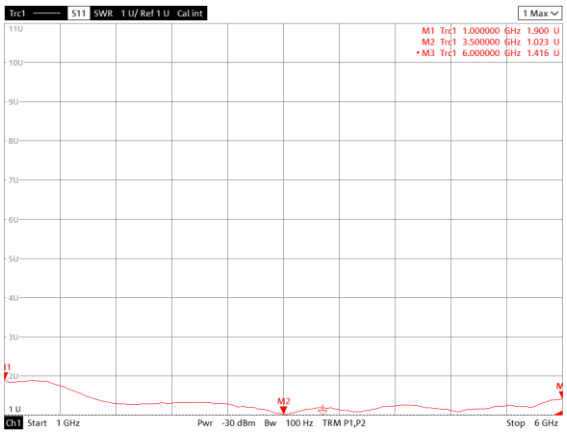
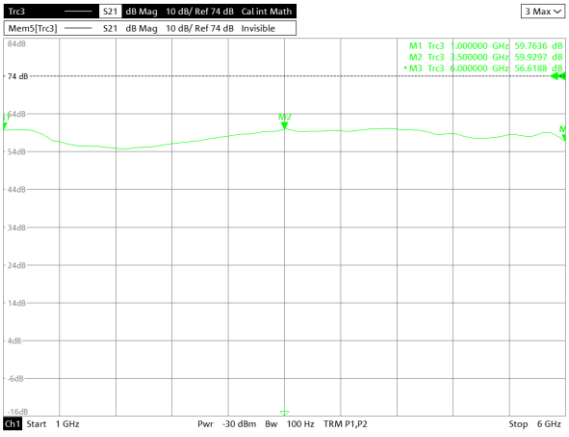
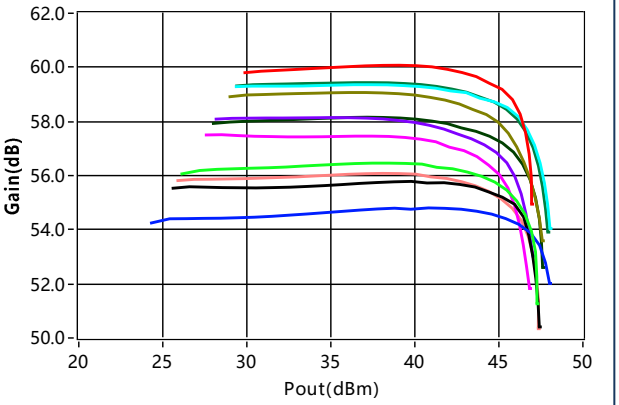


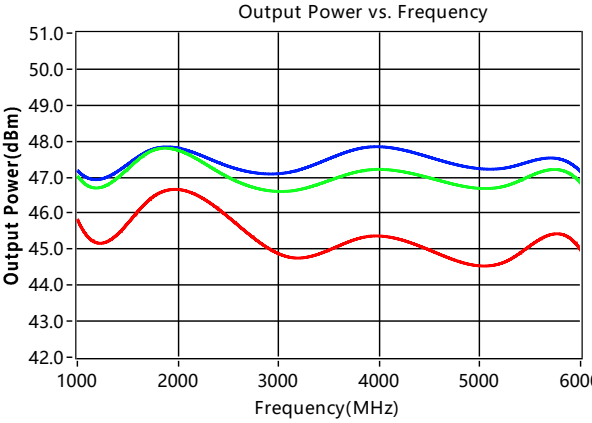
Input VSWR



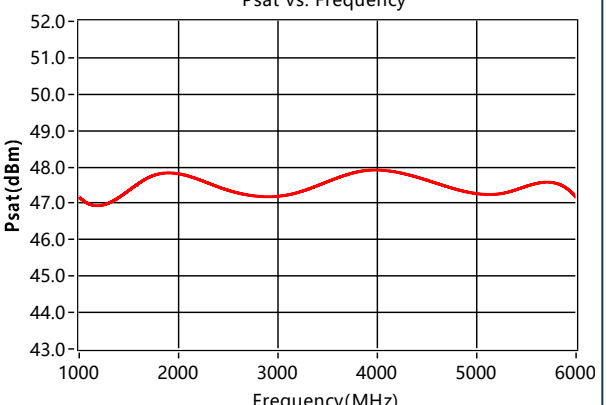
Gain



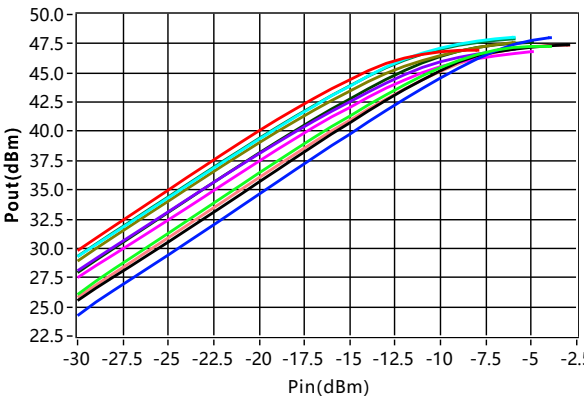
Gain vs. Output Power



PndB vs. Frequency



Psat vs. Frequency



Pout vs.Pin

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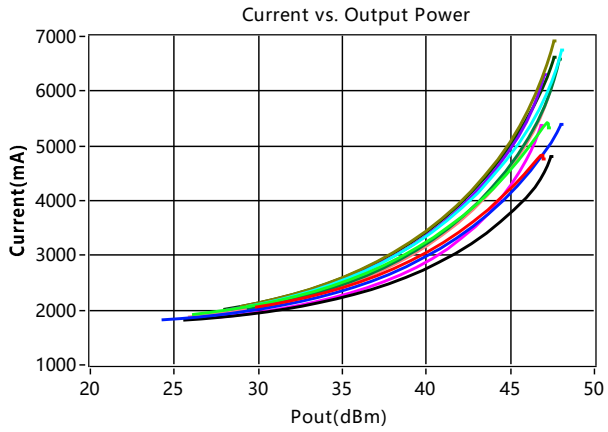
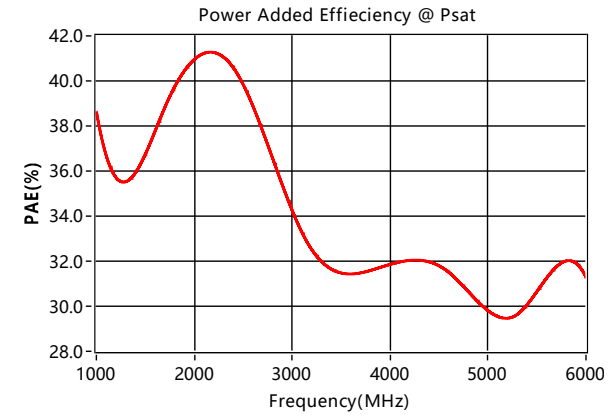
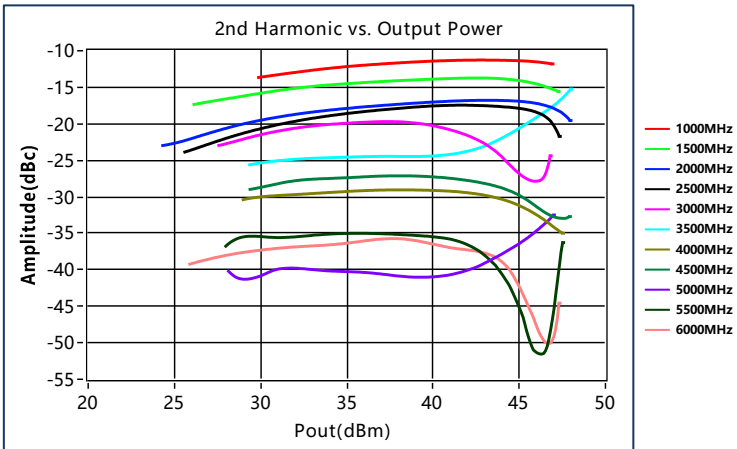


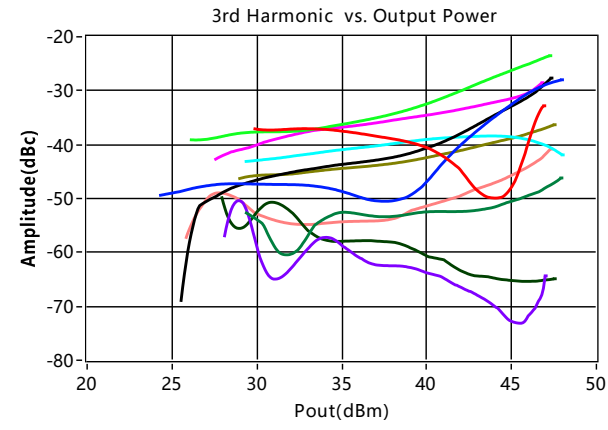
Current VS. Output Power



PAE vs. Frequency



2nd Harmonic



3rd Harmonic

Left IM3 vs. Pout

Right IM3 vs. Pout

DC Interface Connector: J30J-9ZKW-J

Pin #	Name	Function
1	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	VCC	+26.0-30.0VDC
7	VCC	+26.0-30.0VDC
8	VCC	+26.0-30.0VDC
9	VCC	+26.0-30.0VDC