RFUWB
ULTRA WIDEBAND TECHNOLOGIES

Broadband Power Amplifier
UWBPA700M6G-80W

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	0.7		6	GHz
RF Power Output CW	48	49		dBm
Output Power for 1 dB Compression (P1dB)		46		dBm
Gain	54	57		dB
Gain Flatness		±4	±5	dB
Input VSWR		1.5		:1
Harmonics		-15	-9	dBc
Spurious			-60	dBc
Supply Voltage	26	28	30	V
Supply Current(VCC=28V)		1.0	14	A
Input RF drive level without damage			+3	dBm

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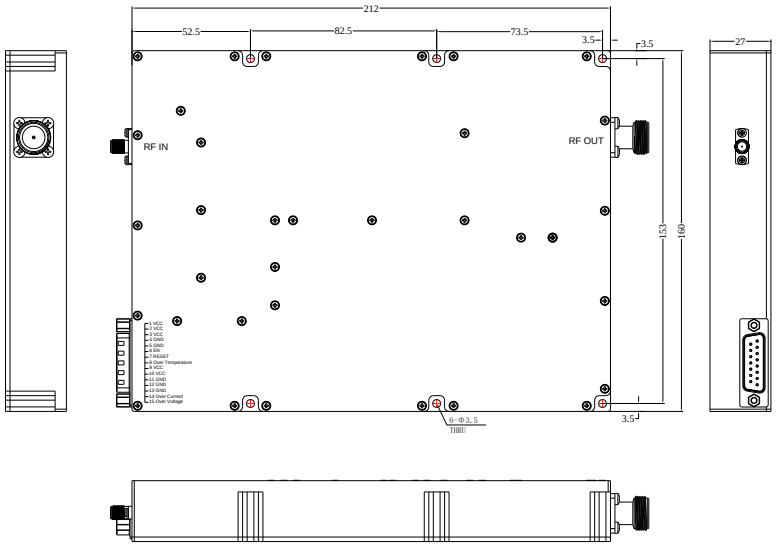
Environmental Specifications

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

Mechanical Specifications

Dimensions (Excluding Connectors)	270 X 160 X 27 mm
RF Connectors	RF IN:SMA-Female RF OUT:N-Female
DC Interface Connector	D-SUB-15
Weight	-
Cooling	Forced air required （Option）



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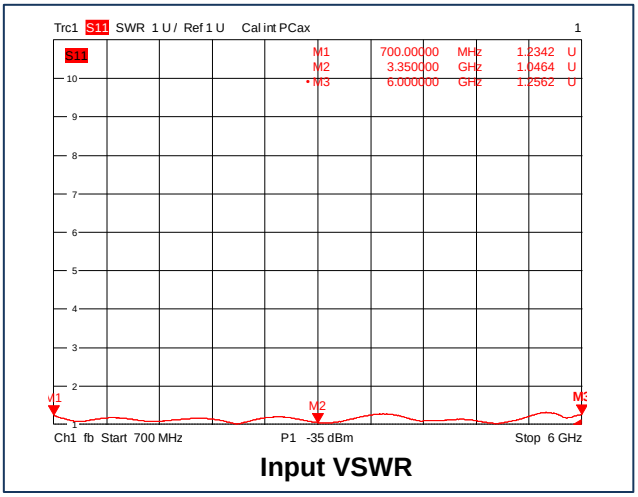
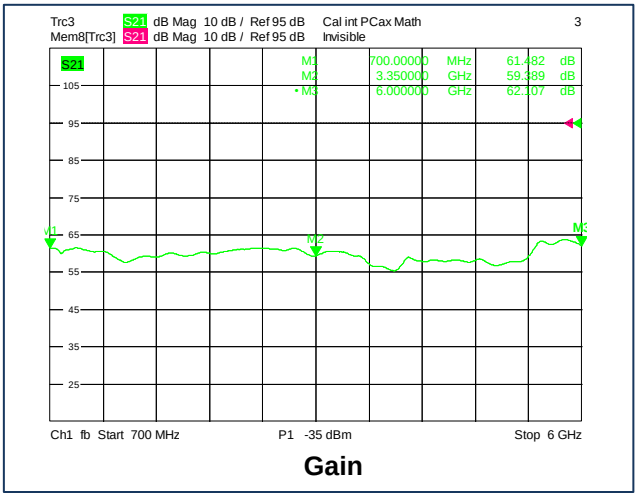
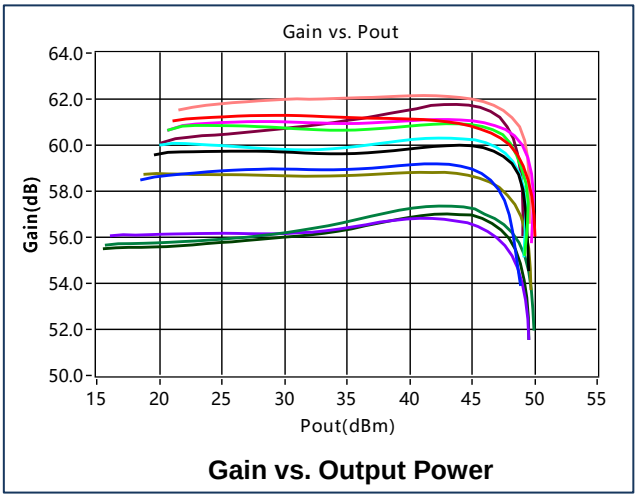


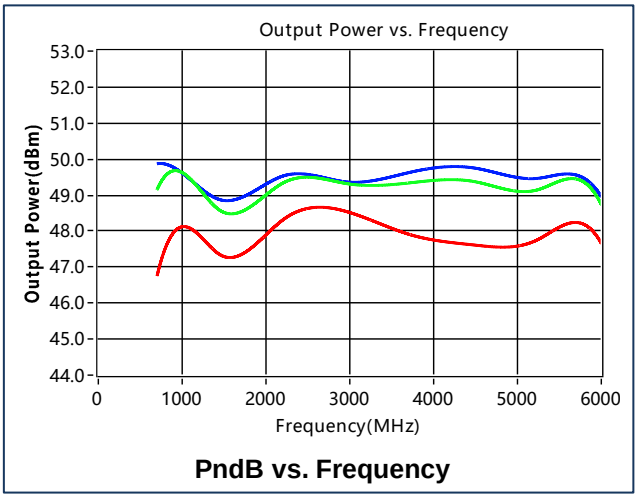
Input VSWR



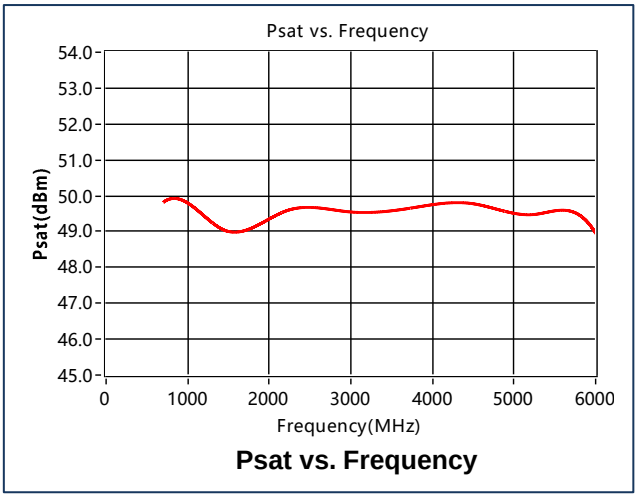
Gain



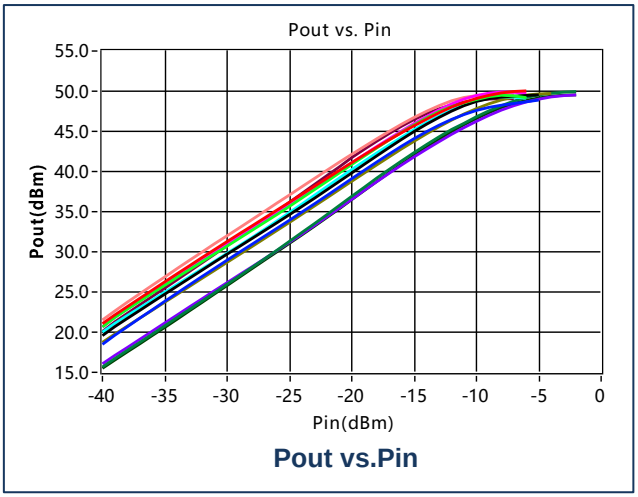
Gain vs. Output Power



PndB vs. Frequency



Psat vs. Frequency



Pout vs.Pin

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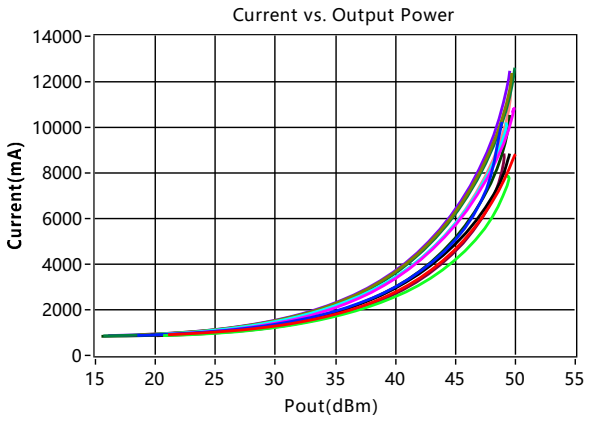
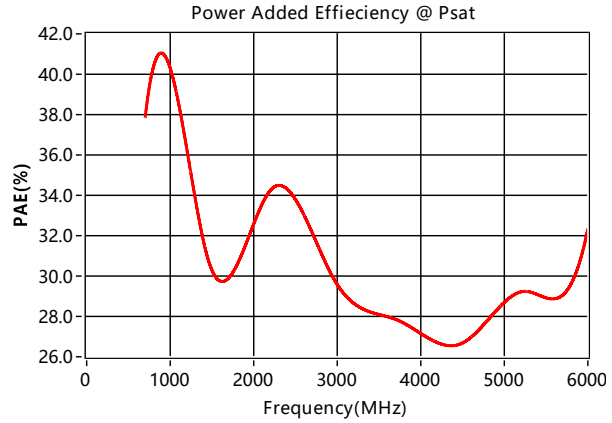
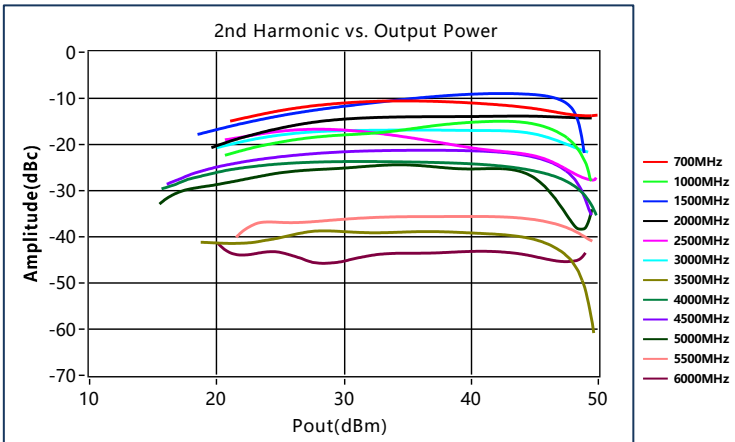


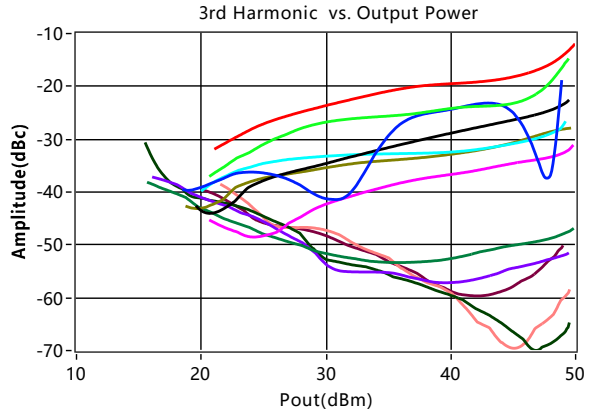
Current VS. Output Power



PAE vs. Frequency



2nd Harmonic



3rd Harmonic

Left IM3 vs. Pout

Right IM3 vs. Pout

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DC Interface Connector: D-sub, 15-Pin, Female

Pin #	Name	Function
1	VCC	+26.0-30.0VDC
2	VCC	+26.0-30.0VDC
3	VCC	+26.0-30.0VDC
4	GND	Ground
5	GND	Ground
6	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High)
7	RESET	Resets PA when logic LOW is applied and released (Internally Pulled-High)
8	Over Temperature	When the temperature of the case exceeds 70 ℃, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 60 ℃, the power amplifier will return to normal operation, and this pin will be pulled low.
9	VCC	+26.0-30.0VDC
10	VCC	+26.0-30.0VDC
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	Over Current	Current FAULT:(TTL High= Fault, TTL Low =Normal)
15	Over Voltage	Voltage FAULT:(TTL High= Fault, TTL Low =Normal)