RFUWB
ULTRA WIDEBAND TECHNOLOGIES

Broadband Power Amplifier
UWBPA1.5M30M-600W

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	1.5		30	MHz
RF Power Output CW	58	59		dBm
Output Power for 1 dB Compression (P1dB)	54	55		dBm
Gain	68	70		dB
Gain Flatness		±1.5	±2	dB
Input VSWR		1.5		:1
Harmonics		-15	-7	dBc
Spurious			-60	dBc
Supply Voltage	38	40	42	V
Supply Current(VCC=40V)		2.5	30	A
Input RF drive level without damage			0	dBm

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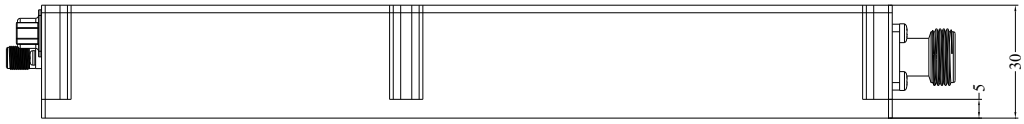
Rev 1.0/ 2026-05-30

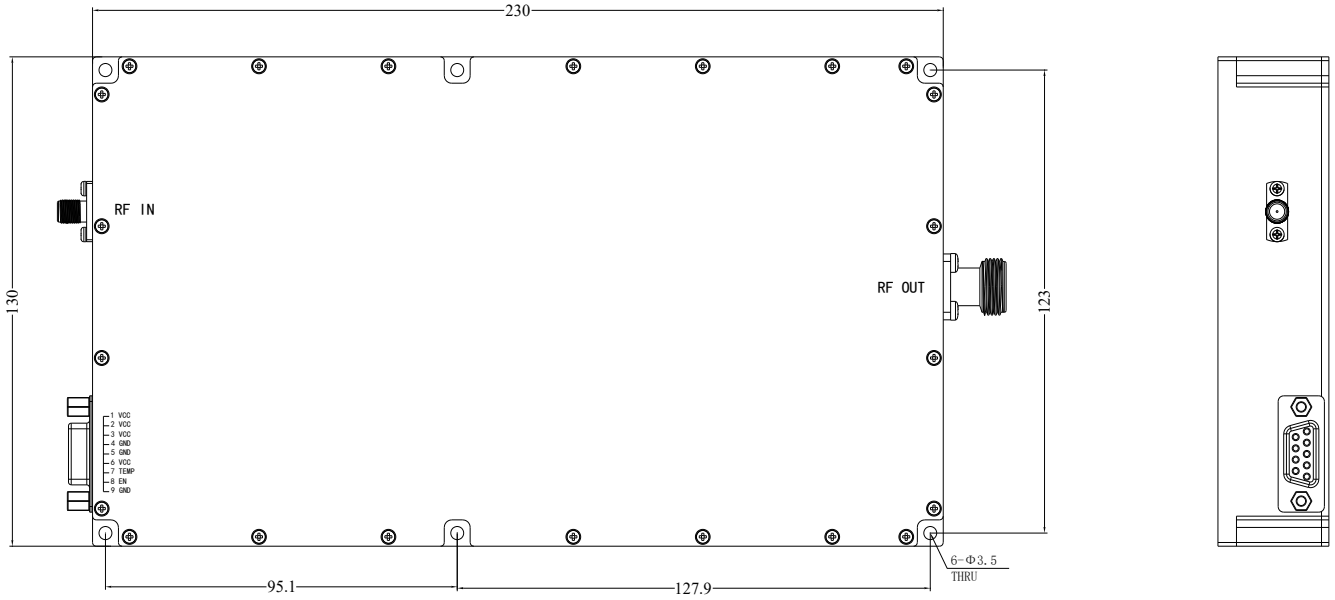
Environmental Specifications

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

Mechanical Specifications

Dimensions (Excluding Connectors)	230 X 130 X 30 mm
RF Connectors	SMA-Female/N-Female
DC Interface Connector	D-SUB-9
Weight	1.8kg
Cooling	Forced air required (Option)





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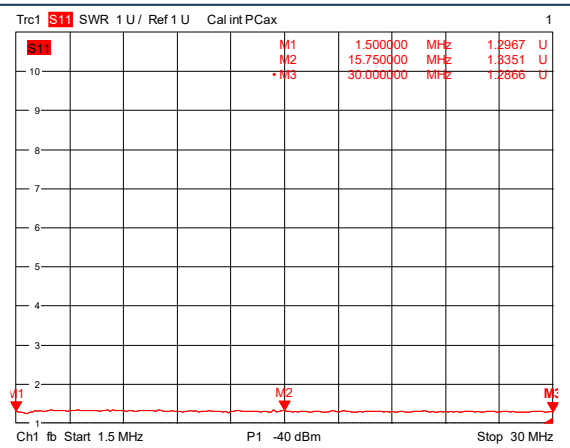
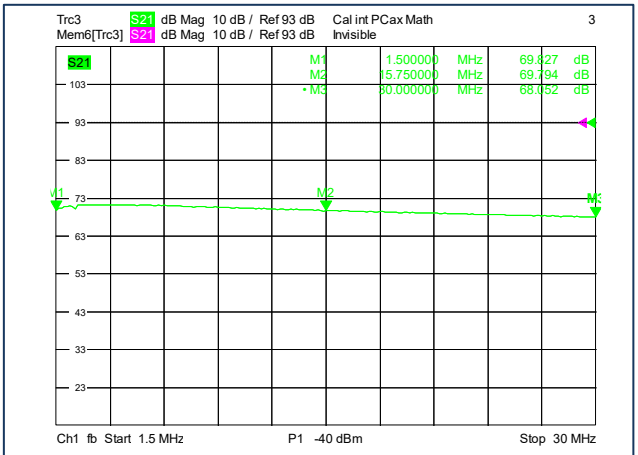
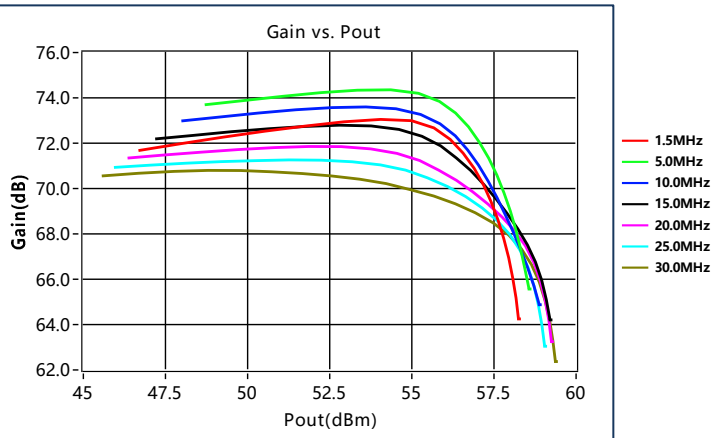


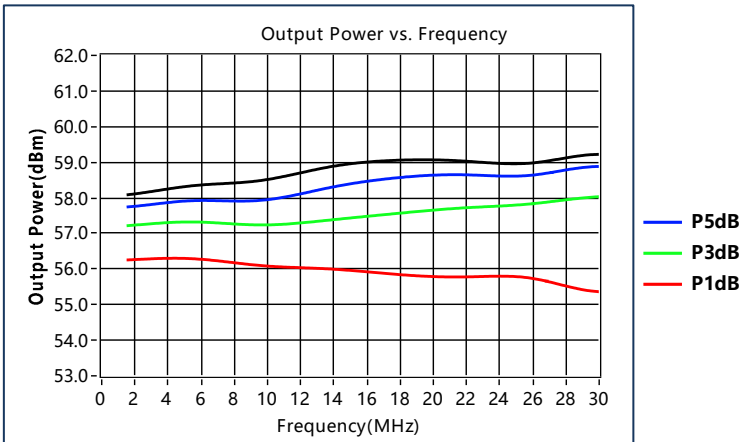
Input VSWR



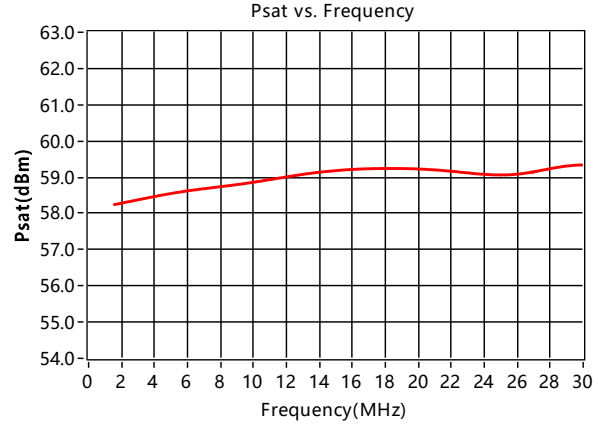
Gain



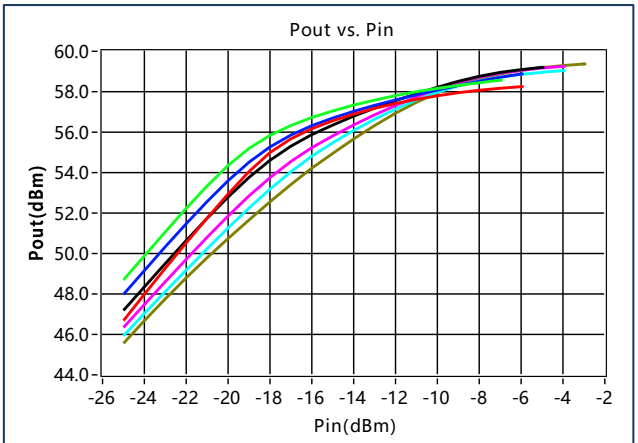
Gain vs. Output Power



PndB vs. Frequency



Psat vs. Frequency



Pout vs.Pin

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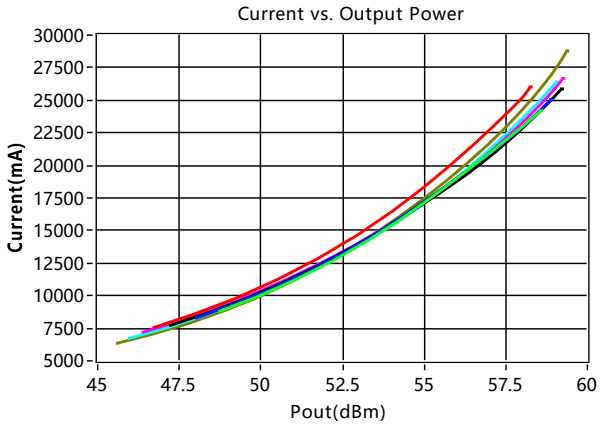
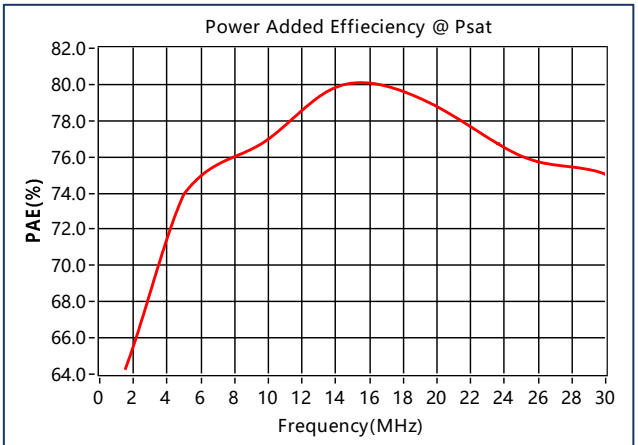
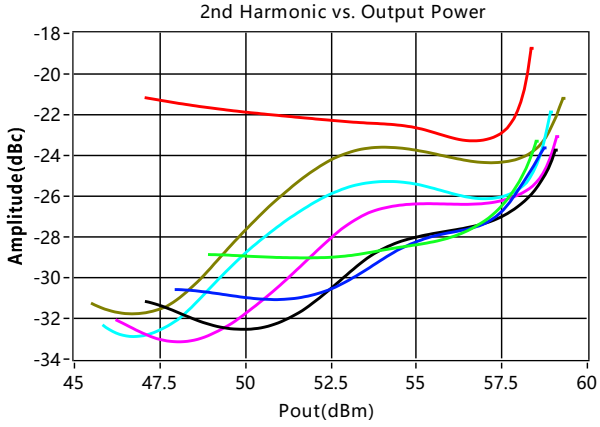


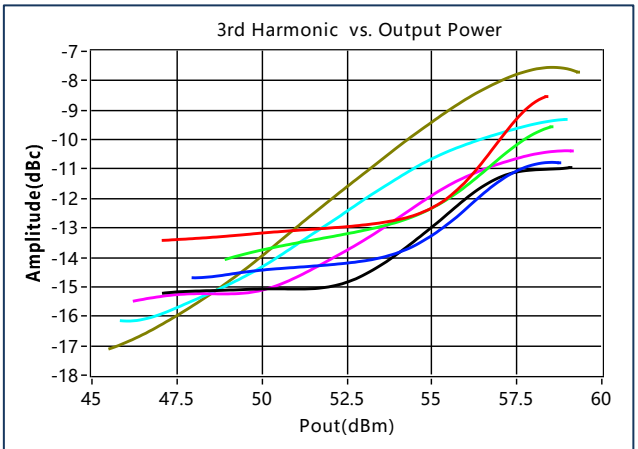
Current VS. Output Power



PAE vs. Frequency



2nd Harmonic



3rd Harmonic

Left IM3 vs. Pout

Right IM3 vs. Pout

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

Pin #	Name	Function
1	VDD	+38.0-42.0VDC
2	VDD	+38.0-42.0VDC
3	VDD	+38.0-42.0VDC
4	GND	Ground
5	GND	Ground
6	VDD	+38.0-42.0VDC
7	TEMP	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.
8	EN	Amplifier Enable: TTL Logic High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground
9	GND	Ground