

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

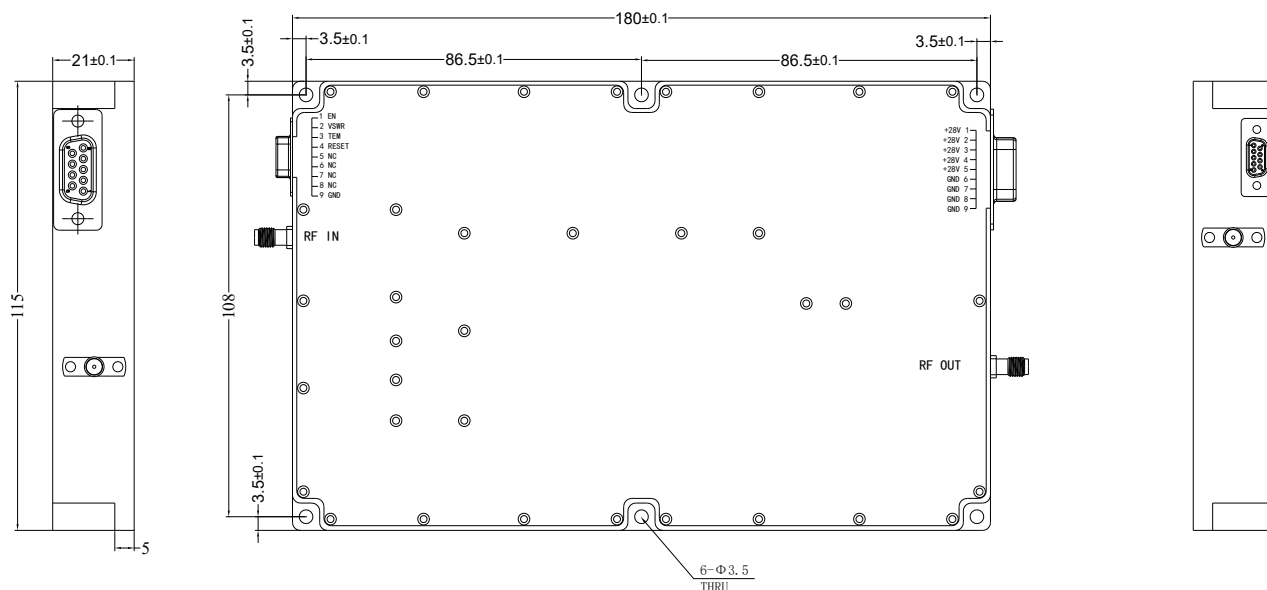
Parameter	Min	Typ	Max	Units
Operating Frequency	1.5		30	MHz
RF Power Output CW	49	50		dBm
Output Power for 1 dB Compression (P1dB)	46	47		dBm
Gain	55	57		dB
Gain Flatness		±2	±3	dB
Input VSWR		1.5		:1
Harmonics		-15	-10	dBc
Spurious			-60	dBc
Supply Voltage	26	28	30	V
Supply Current(VCC=28V)		3	11	A
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

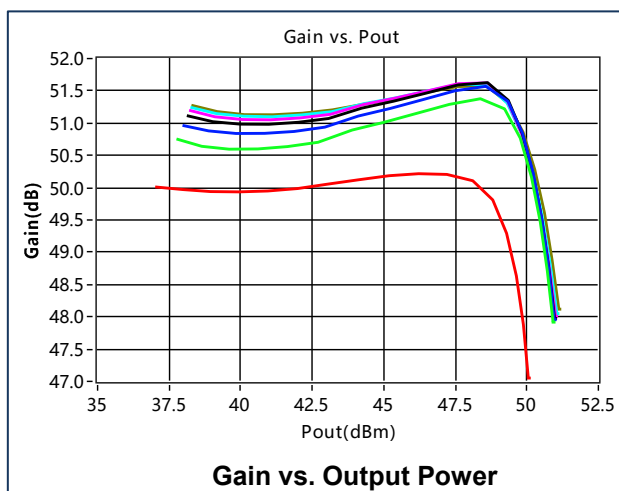
Mechanical Specifications

Dimensions (Excluding Connectors)	180 X 115 X 21 mm
RF Connectors	RF IN: SMA-Female RF OUT: SMA-Female
DC Interface Connector	D-sub, 9-Pin, Female
Control Interface Connector	J30J-9
Weight	-
Cooling	Forced air required (Option)

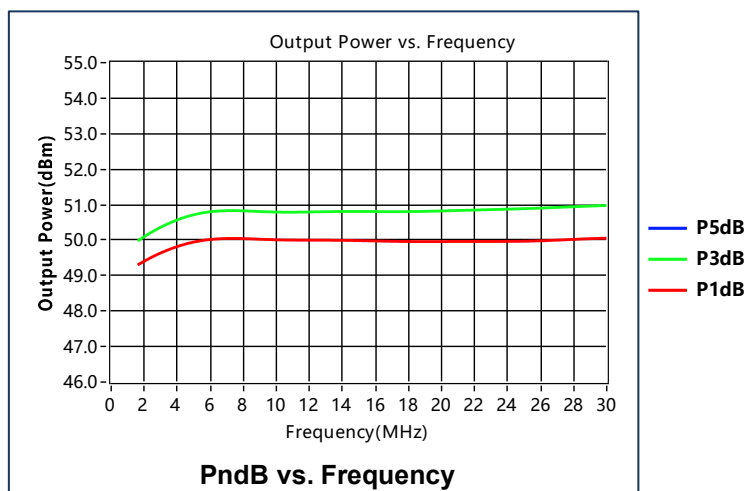


Input VSWR

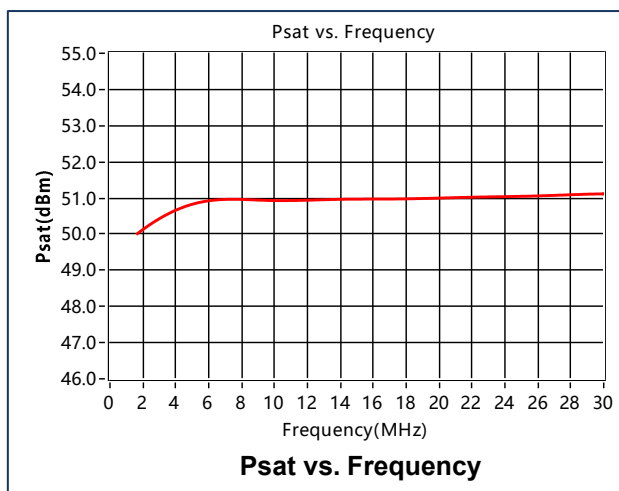
Gain



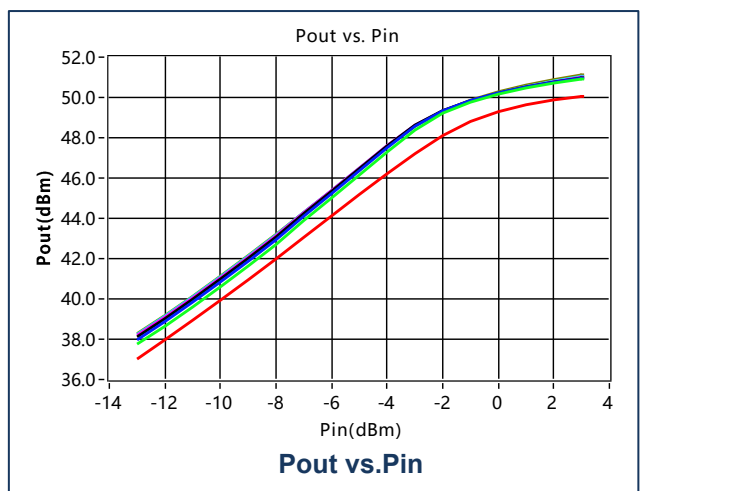
Gain vs. Output Power



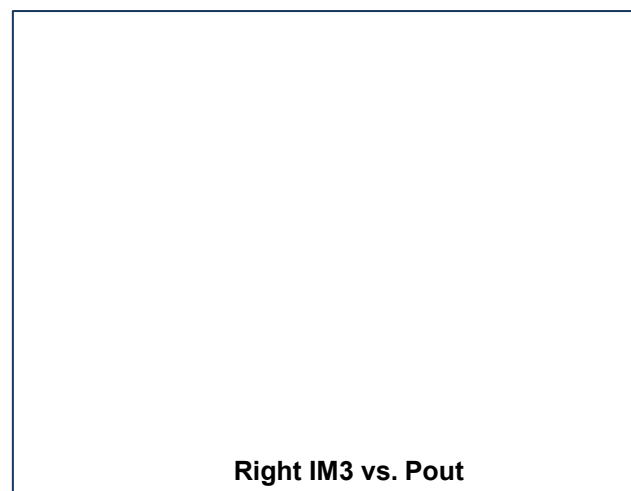
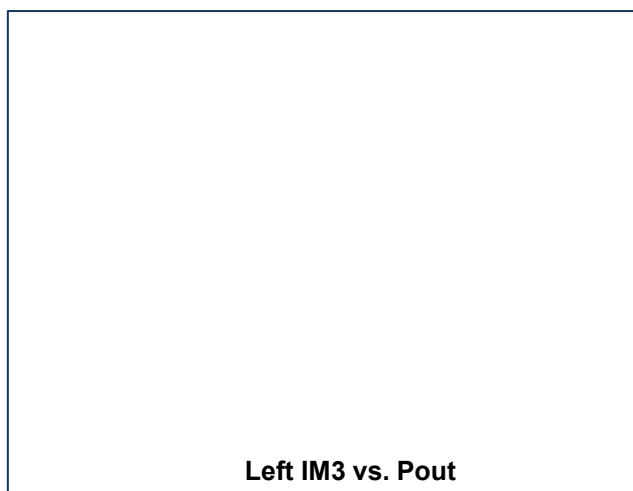
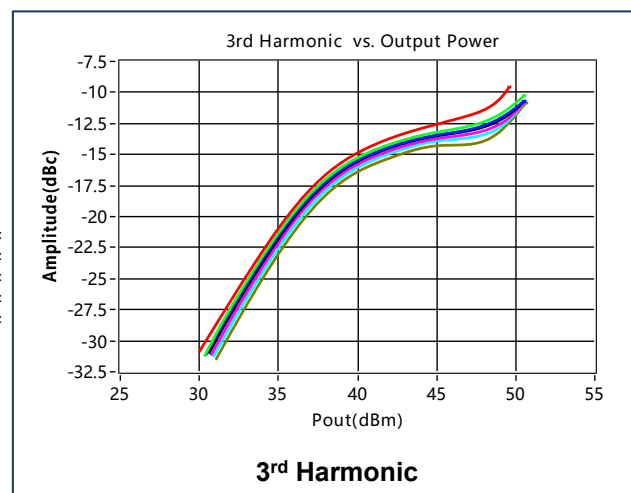
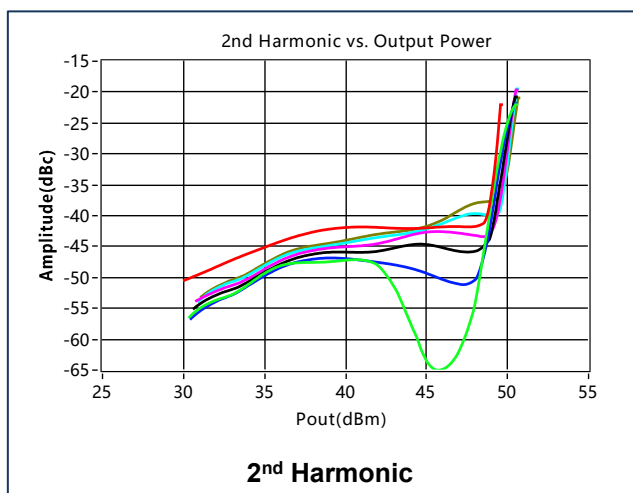
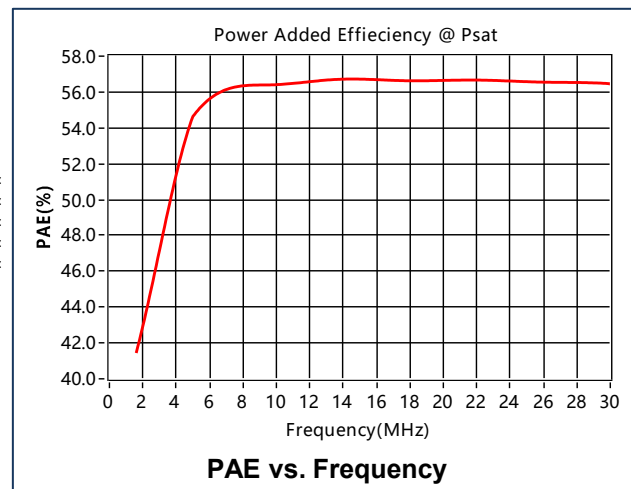
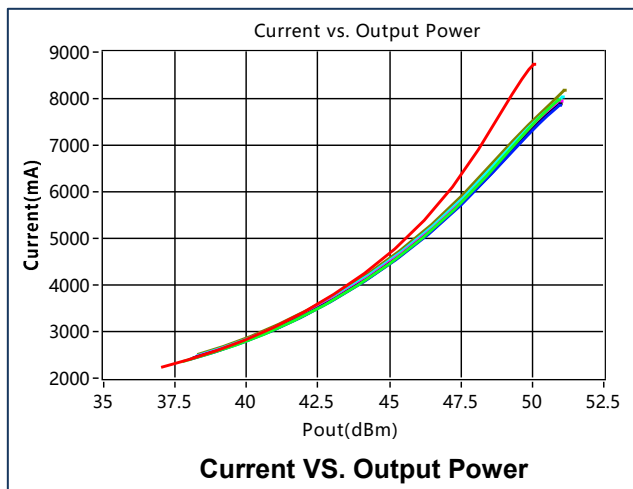
PndB vs. Frequency



Psat vs. Frequency



Pout vs. Pin



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

Pin #	Name	Function
1	VDD	+26.0-30.0VDC
2	VDD	+26.0-30.0VDC
3	VDD	+26.0-30.0VDC
4	VDD	+26.0-30.0VDC
5	VDD	+26.0-30.0VDC
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	GND	Ground

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

Pin #	Name	Function
1	EN	Amplifier Enable: TTL Logic High (5V) (Internally Pulled-High)
2	VSWR	When output reflection is over limit, the power amplifier will turn off and this pin will be pulled high
3	TEM	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.
4	REST	Resets PA when logic LOW is applied and released (Internally Pulled-High)
5	NC	Not connected
6	NC	Not connected
7	NC	Not connected
8	NC	Not connected
9	GND	Ground