

## Features

- High Output Power 20dBm typical.
- High peak to average handling capability.
- High linearity and low noise figure.
- Convenient AC Power Input. (AC 110V/220V)
- Integrated Heat Sink and Fan.



## Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT  
Fiber Optics

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.
Frequency Range	0.1		3	3		8	8		10	GHz
Gain	34	37		30	35		25	29		dB
Gain Flatness		±1.0			±2.0			±3.0		dB
Gain Variation Over Temperature (-40°C ~ +85°C)		±1.0			±1.0			±1.0		dB
Noise Figure		1.5			1.8	2.5		2.5	3.0	dB
Input VSWR		1.6	2.2		1.8	2.2		2.0	2.5	: 1
Output VSWR		1.5	2.2		1.8	2.2		2.5	3.0	: 1
Output 1dB Compression Point (P1dB)	19	20.5		18	20		16	18.5		dBm
Saturated Output Power (Psat)		22			21			20		dBm
Output Third Order Intercept (OIP3)		33			31.5			31		dBm
Supply Current (AC=220V)		60			60			60		mA
Isolation S12		-55			-60			-60		dB

Weight	38.8 Max. ounce	Impedance	50ohms
Input / Output Connectors	SMA-Female	Material	Aluminum
Finish	Gray Paint		

### Absolute Maximum Ratings

Operating Voltage	110V to 240V AC
RF Input Power(RFIN)	0dBm

Note: Maximum RF input power is defined to protect the amplifier from damage.

Input power may be increased at the users own risk to achieve the full output power of the amplifier. Please reference gain and power curves and monitor the temperature.

### Biassing Up Procedure

Step 1	Connect input and output with 50 Ohm source and load with in band return loss better than 10dB.
Step 2	Connect AC Plug
Step 3	Flip switch to "ON" position

### Power OFF Procedure

Step 1	Flip switch to "OFF" position
Step 2	Remove AC Plug
Step 3	Remove RF Connection

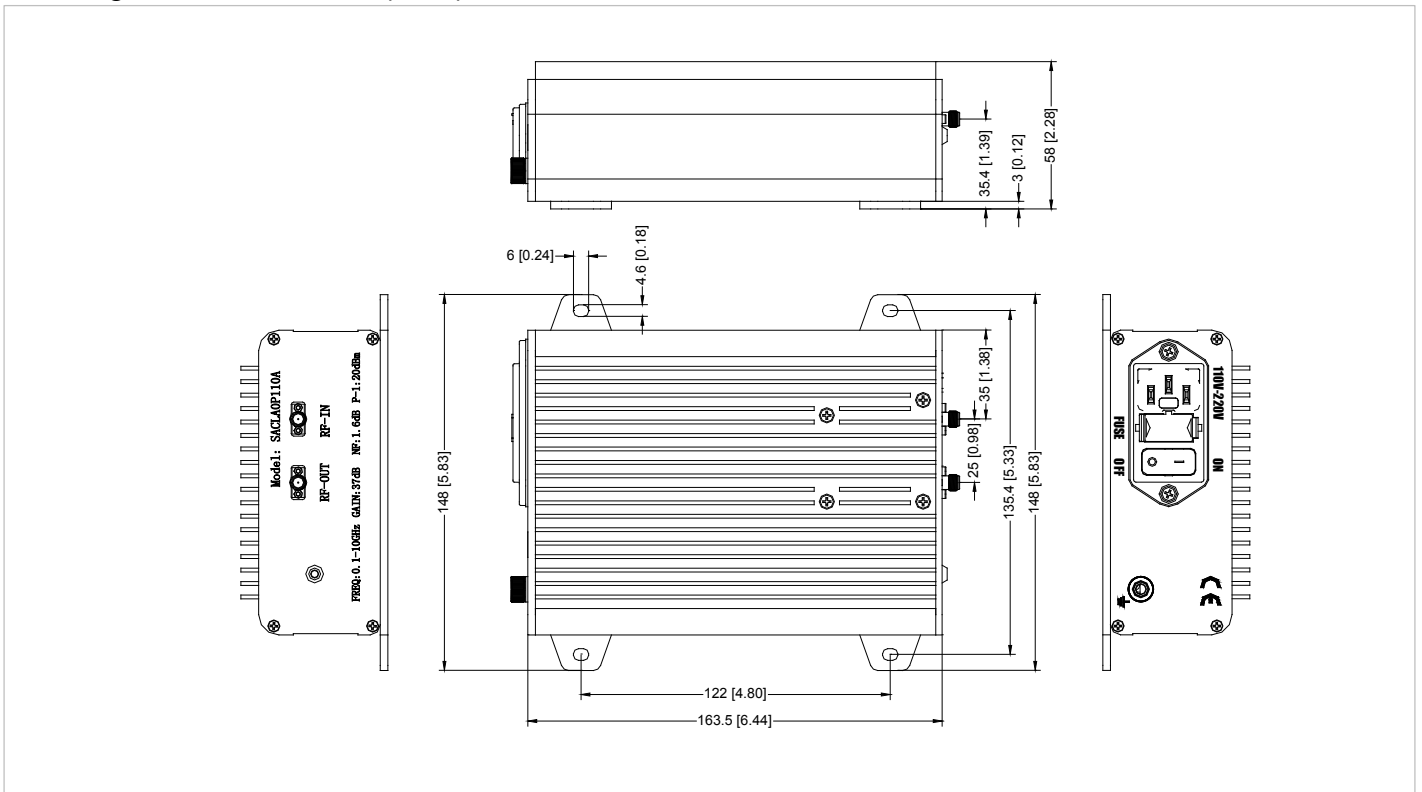
### Environmental Specifications

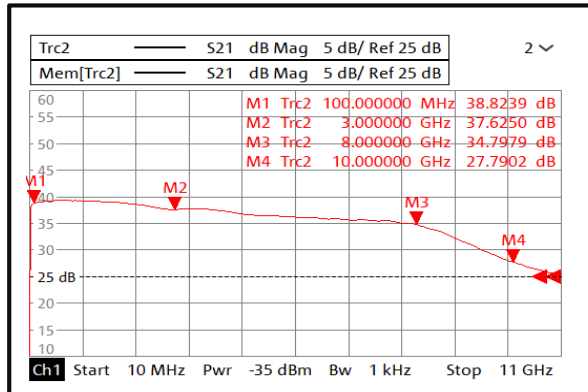
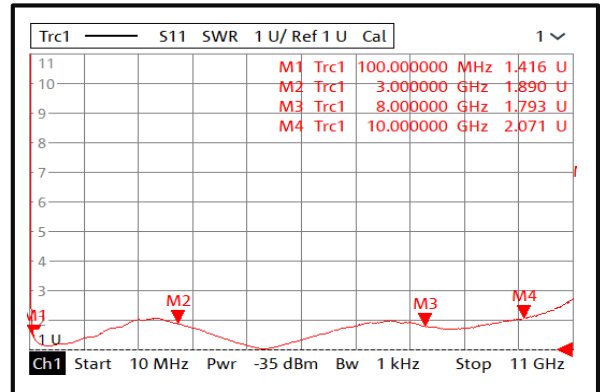
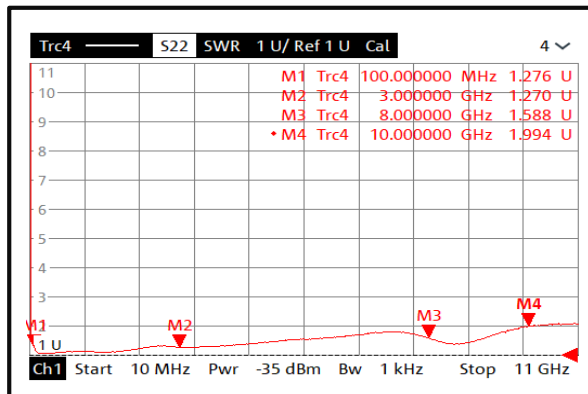
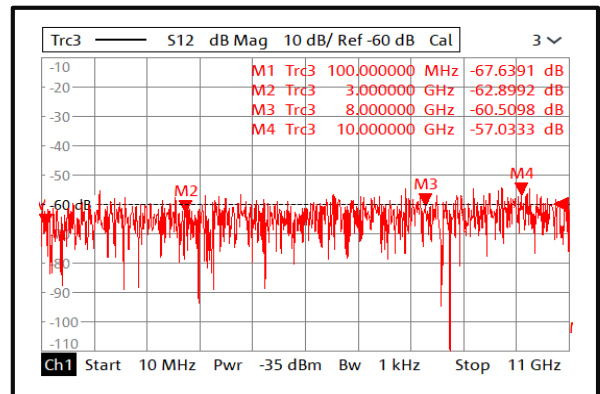
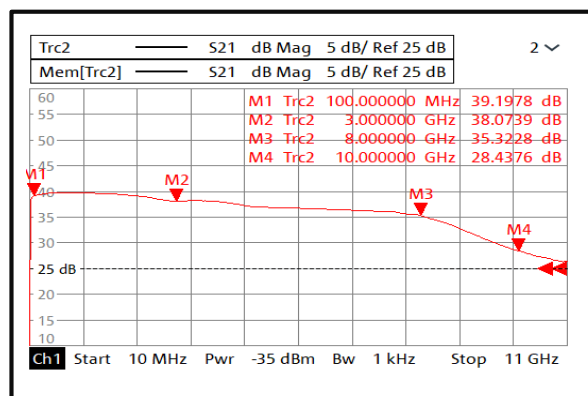
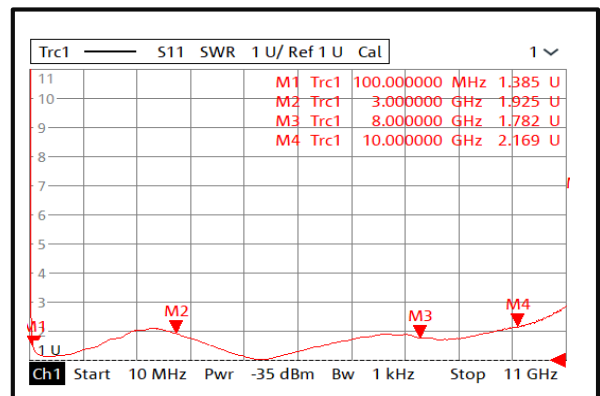
Operational Temperature	-40°C~+85°C(Case Temperature)
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave,3 axis both directions

### Outline Drawing:

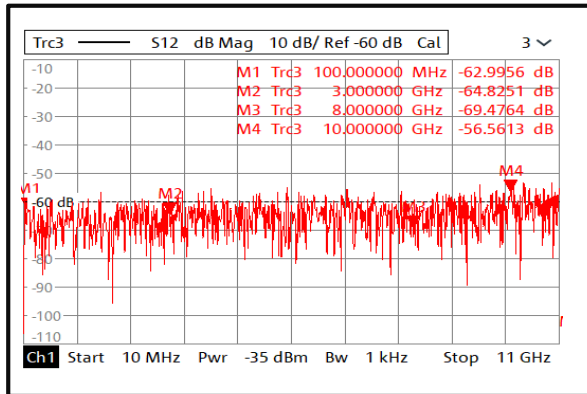
All Dimensions in mm (inches)

Housing Tolerances  $\pm 1.5$  (0.06)

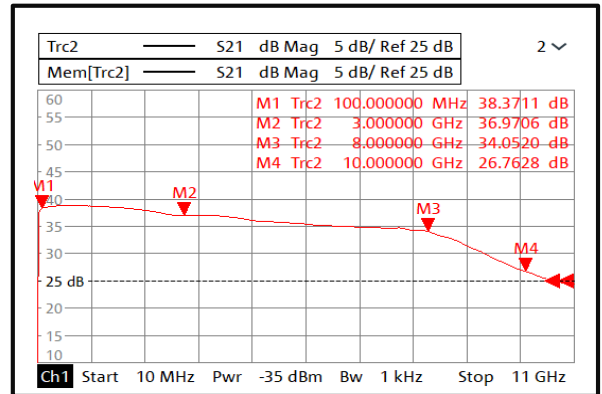


**Gain@+25°C**

**Input VSWR@+25°C**

**Output VSWR@+25°C**

**Isolation@+25°C**

**Gain@-40°C**

**Input VSWR@-40°C**


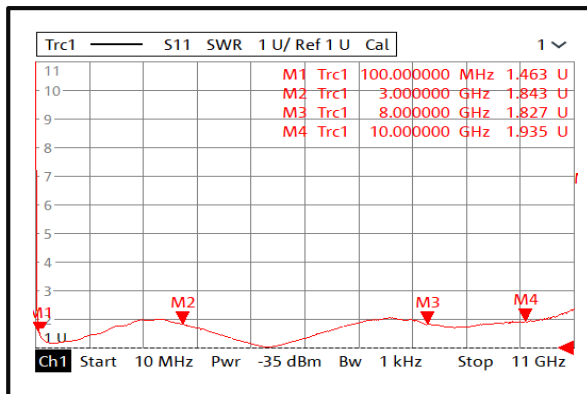
### Isolation@-40°C



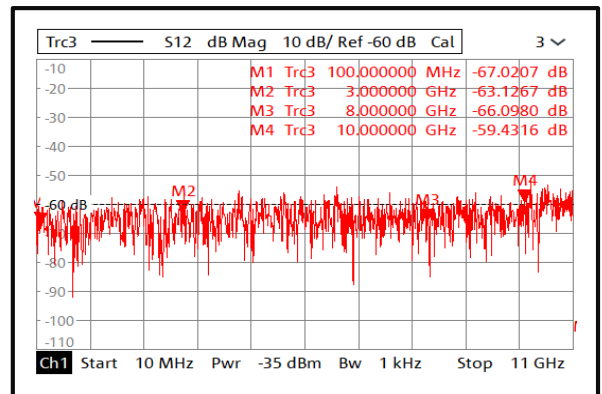
### Gain@+85°C



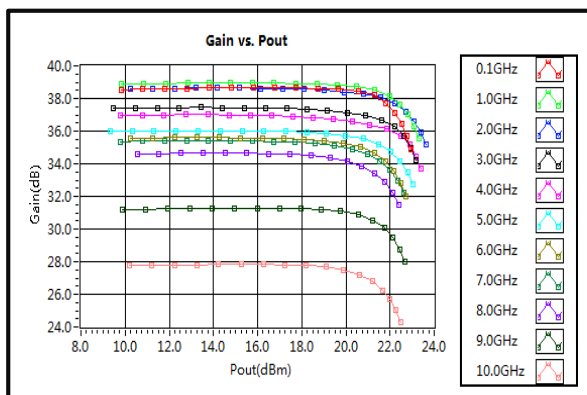
### Input VSWR@+85°C



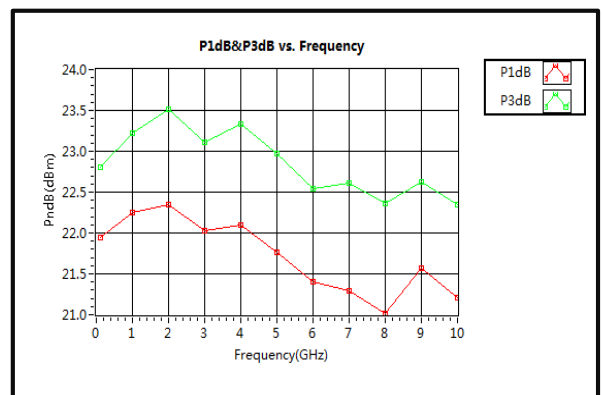
### Isolation@+85°C



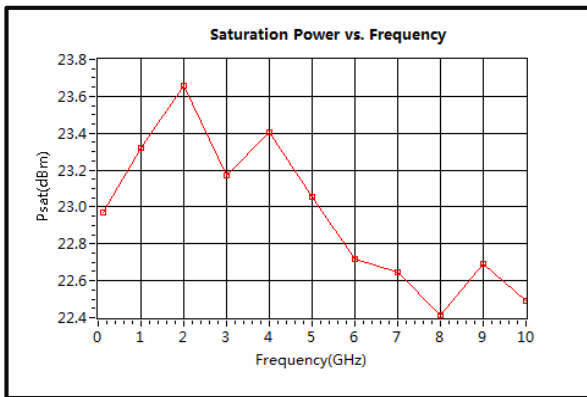
### Gain vs. Output Power



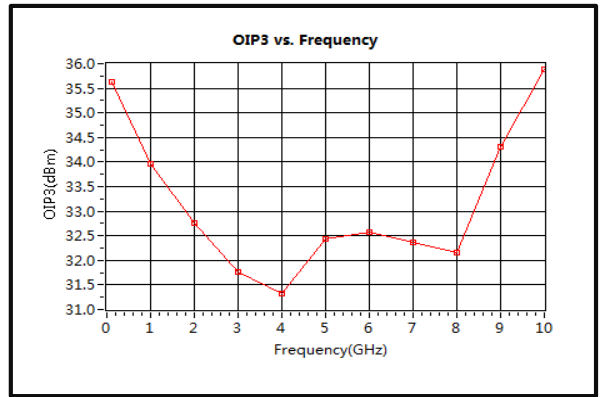
### P1dB & P3dB vs. Frequency



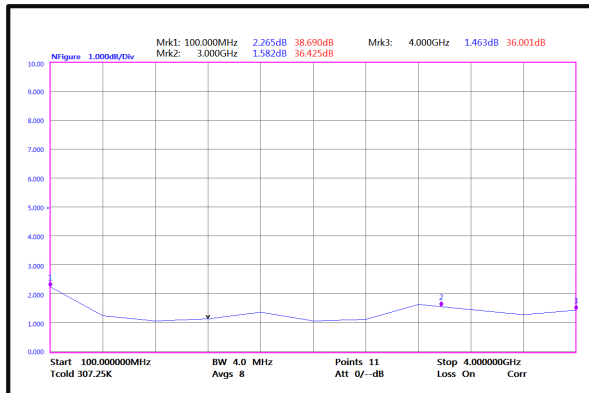
Saturated Power vs. Frequency



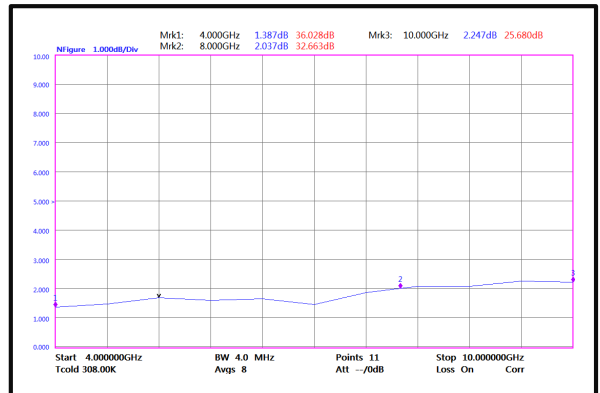
OIP3 vs. Frequency



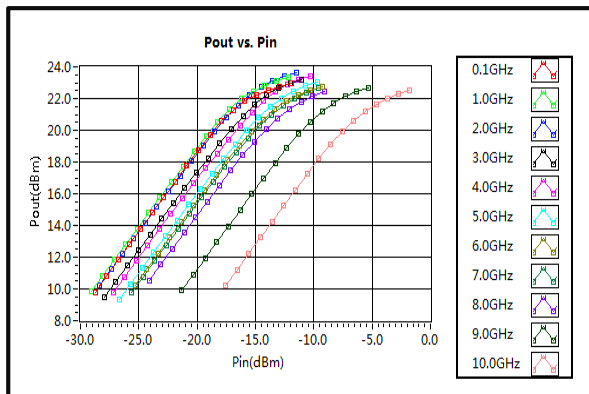
Noise Figure(0.1GHz-4GHz)



Noise Figure(4GHz-10GHz)



Pout vs. Pin



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