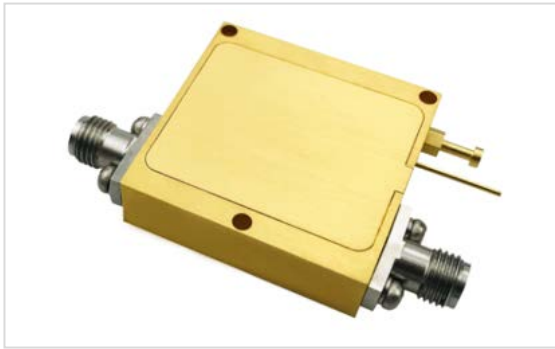


MODEL HILNAH1203040A

0.01-20GHz Broadband Amplifier



Note: The photo is for illustration purposes only.
Please refer to outline drawing

■ Features

- Ultra Wide Band: 0.01-20GHz
- Gain: 30dB
- Output Power: 20dBm
- High Output IP3: 30dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range	0.01-6		6-20				GHz
Gain	28	32		27	31		dB
Gain Flatness		±1.5	±2		±1.5	±2	dB
Gain Variation Over Temperature		±1			±1		dB
Input VSWR		1.5	2.0		1.5	2.2	
Output VSWR		1.8	2.0		1.8	2.2	
Output Power for 1 dB	20	22		18	20		dBm
Saturated Output Power (Psat)		24			21		dBm
Noise Figure		4	5.5		4	5.0	dB
OIP3		30			30		
Input Max Power(no damage)			0			0	dBm
DC Current (Vcc=+12V)		240	270		240	270	mA
Impedance	50						Ω
Input Output Connector	SMA-k/SMA-K						
Material	Aluminium/Gold						
Weight	50g						
Package Sealing	General Sealing (Standard); Hermetically Seal(Optional)						

Environmental Conditions

Operational Temperature	0°C~+50°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55°C~+125°C	Shock	20G for 11msc half sin wave, 3 axis both directions
Executive Standard	MIL-STD-810G	Humidity	100% RH at 35c, 95%RH at 40°C

Absolute Maximum Ratings

Supply Bias Voltage	15V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V

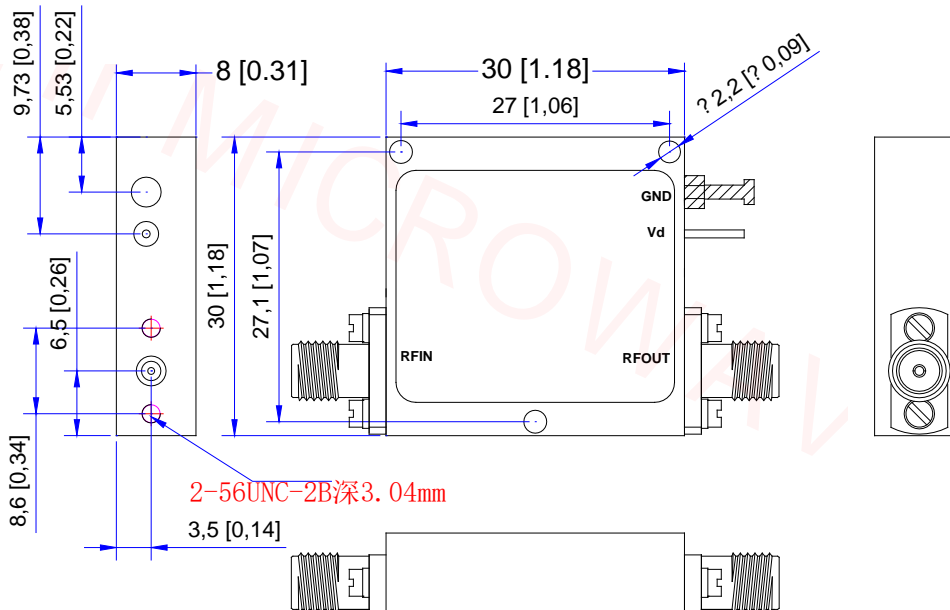


OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES



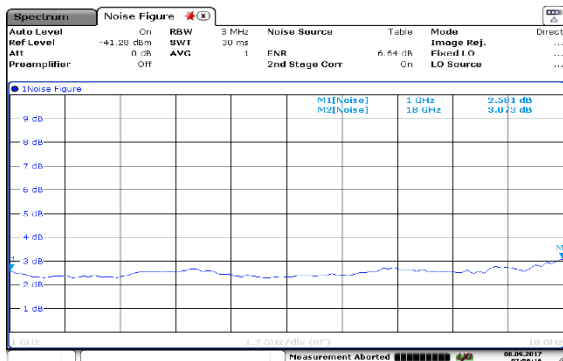
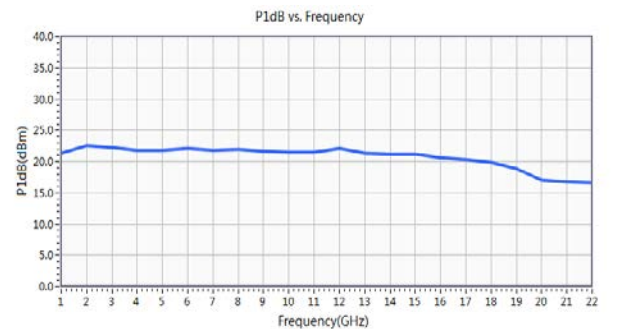
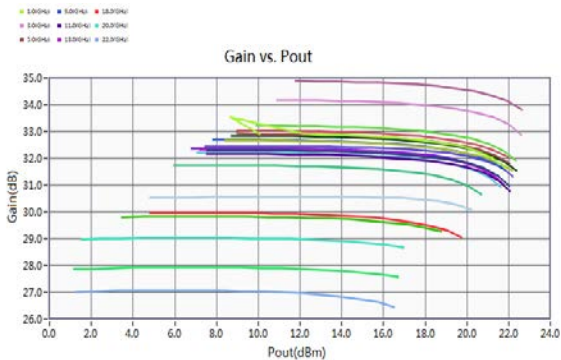
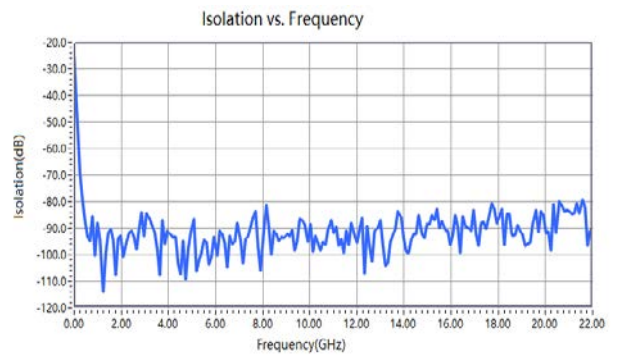
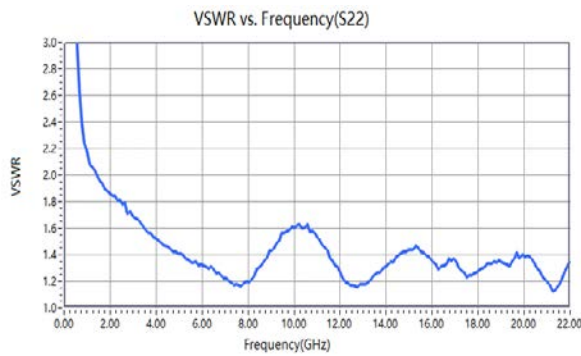
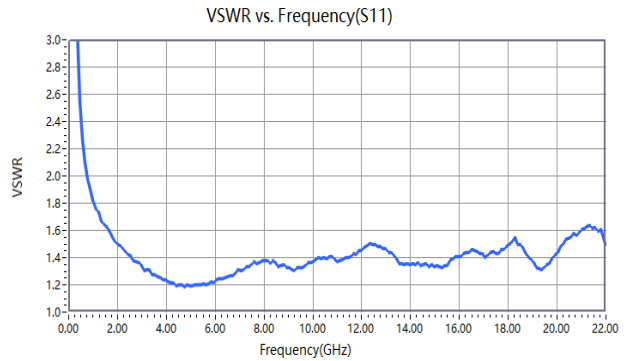
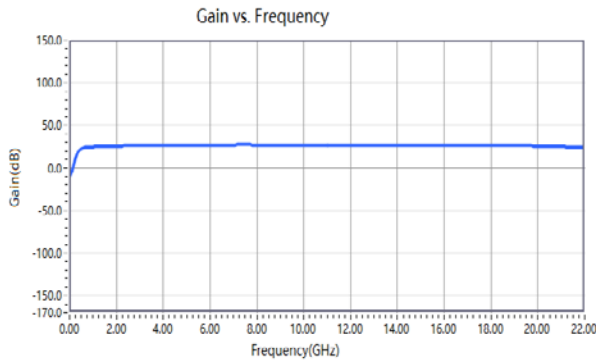
Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



*****Heat Sink required during operation*****

■ Typical Parameters



Date: 8 SEP 2017 07:59:17