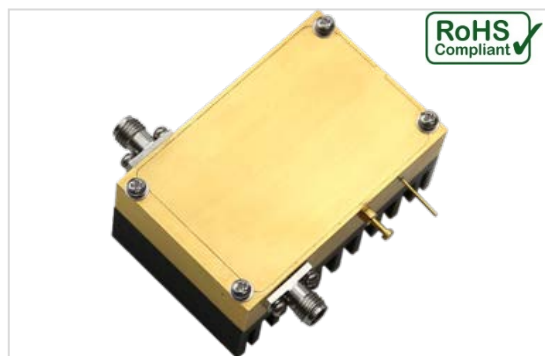


# MODEL HIPA01182533

## 1-18GHz Broadband Power Amplifier



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

### ■ Features

- Ultra Wide Band: 1-18GHz
- Gain: 25dB
- Output Power: 33dBm
- High Output IP3: 40dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		1-18		GHz
Gain	25			dB
Gain Flatness		±2.5	±3	dB
Input VSWR		2.0	2.5	-
Output VSWR		2.0	2.5	-
Noise Figure			3	dB
Output Power for 1 dB Compression (P1dB)	33			dBm
Saturated Output Power (Psat)		34		dBm
Spurious		-60		dBc
Input Max Power(no damage)			+10	dBm
DC Current (Vcc=+18v )@(P1dB)		800		mA
Impedance		50		Ω
Input Output Connector		SMA-Female/SMA-Female		
Material		Aluminium		
Weight		50g		
Package Sealing		General Sealing (Standard)		

### Environmental Conditions

Operational Temperature	-45°C~+85°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

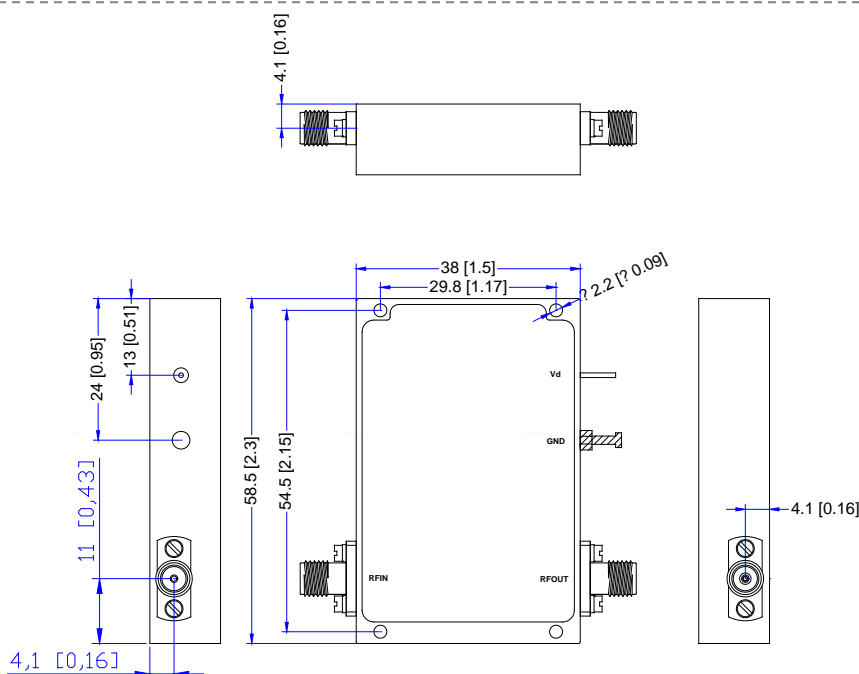
Supply Bias Voltage	+24V
RF INPUT POWER	+10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES

### Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



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