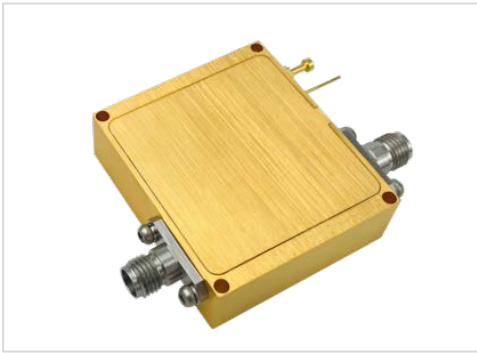


# MODEL HIPA01182528

## 1-18GHz Broadband Amplifier



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

### ■ Features

- Ultra Wide Band: 1-18GHz
- Gain: 25dB
- Output Power: 28dBm
- High Output IP3: 38dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems


### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	1-18			GHz
Gain	20	25		dB
Gain Flatness		±3		dB
Input VSWR		1.5	2.0	
Output VSWR		1.8	2.0	
Output Power for 1 dB	26	27		dBm
Saturated Output Power (Psat)	28			dBm
Noise Figure		5		dB
Second Harmonic		-15	-13	dBc
Spurious		-50		dBc
OIP3	38	40		
Input Max Power(no damage)			10	dBm
DC Current (Vcc=+12V)		500		mA
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium/Conductive oxide			
Weight	50g			
Package Sealing	General Sealing (Standard); Hermetically Seal(Optional)			

### 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

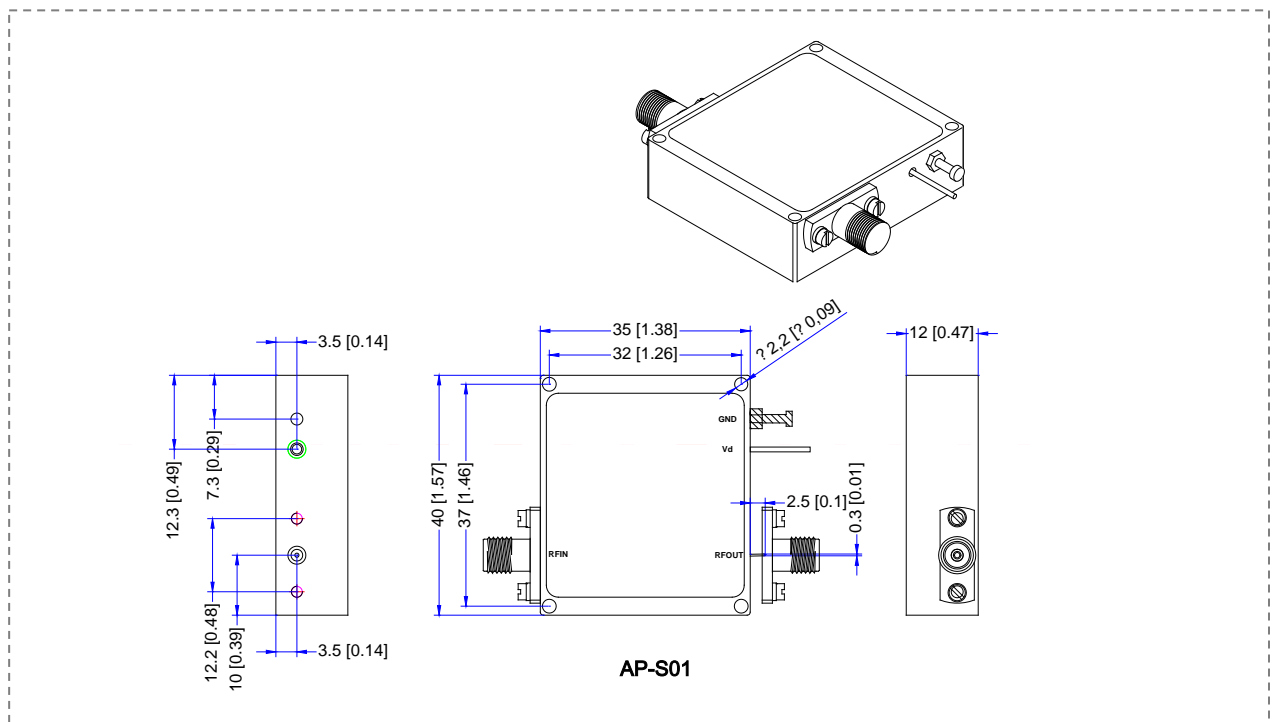
### Absolute Maximum Ratings

Supply Bias Voltage	15V	 <p>OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES</p>
RF INPUT POWER	10dBm	
ESD sensitivity (HBm)	Class 0, passed 150V	



### Outline Drawing

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



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