

# MODEL HIPA33503020

## 33-50GHz Medium Power Amplifier



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

### ■ Features

- Ultra Wide Band: 33-50GHz
- Gain: 30dB
- Output Power P-1: 18dBm
- Bias: Vd= +6~15V; Id= 650mA

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		33-50		GHz
Small Signal Gain		30		dB
Gain Flatness		±2.0		dB
Input VSWR		1.9		-
Output VSWR		1.9		-
Output Power for 1 dB Compression (P1dB)		18		dBm
Output Power Past		20		dBm
Nf		4.5		dB
Input Max Power(no damage)			0	dBm
Supirous		-60		dBc
OIP3		25		dBm
DC Current (Vcc=+6~15V)		650		mA
Weight		36.9		g
Impedance		50		Ω
Input Connector/Output Connector		2.4mm-Female		
Material		Aluminum		
Finishing		Gold Plated		
Dimension		1.20" (W) X 1.20" (L) X 0.50" (H)		

### 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

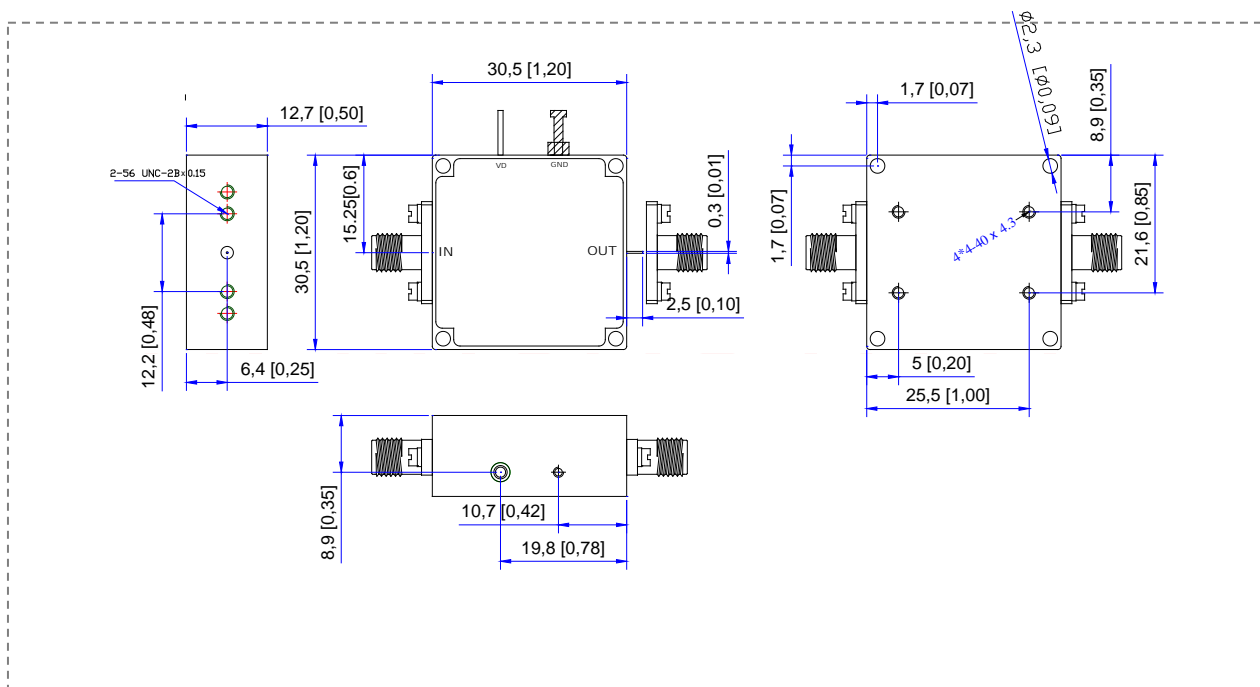
Supply Bias Voltage	15V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES

### Outline Drawing

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



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