

# MODEL HIPA20401722

## 20-40GHz Medium Power Amplifier



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

### ■ Features

- Ultra Wide Band: 20-40GHz
- Gain: 17dB
- Output Power P-1: 22dBm
- Bias: Vd= +7~15V; Id= 400mA

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		20-40		GHz
Small Signal Gain		17		dB
Gain Flatness		±1.5		dB
Input VSWR		1.9		-
Output VSWR		1.9		-
Output Power for 1 dB Compression (P1dB)		22		dBm
Output Power Past		23		dBm
Input Max Power(no damage)			+20	dBm
Suprious		-60		dBc
OIP3		30		dBm
DC Current (Vcc=+7~15V)		400		mA
Weight		36.9		g
Impedance		50		Ω
Input Connector/Output Connector		K-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

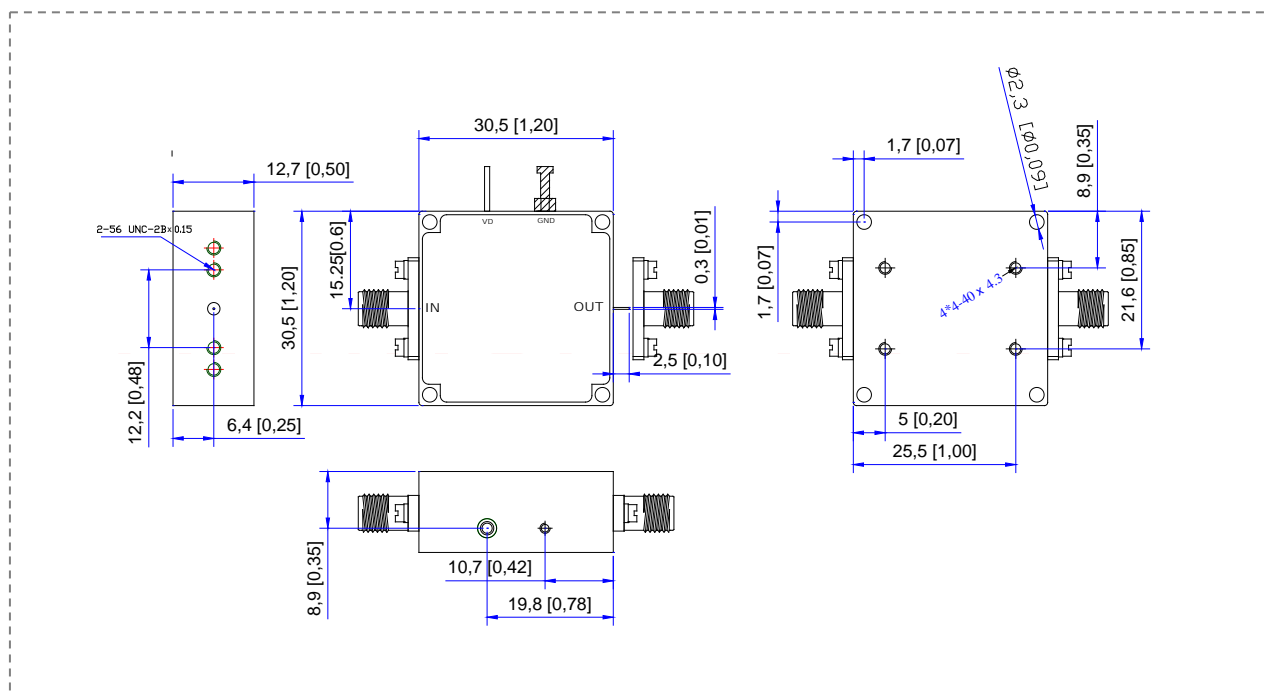
Supply Bias Voltage	16V
RF INPUT POWER	+20dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES

### Outline Drawing

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



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