

MODEL HIPA55653022

55-65GHz Medium Power Amplifier



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

■ Features

- Ultra Wide Band: 55-65GHz
- Gain: 30dB
- Output Power P-1: 22dBm
- Bias: Vd= +7~12V; Id= 800mA

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		55-65		GHz
Small Signal Gain		30		dB
Gain Flatness		±2.5		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)			+0	dBm
Suprious		-60		dBc
OIP3		30		dBm
DC Current (Vcc=+7~12V)		800		mA
Weight		36.9		g
Impedance		50		Ω
Input Connector/Output Connector		V-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

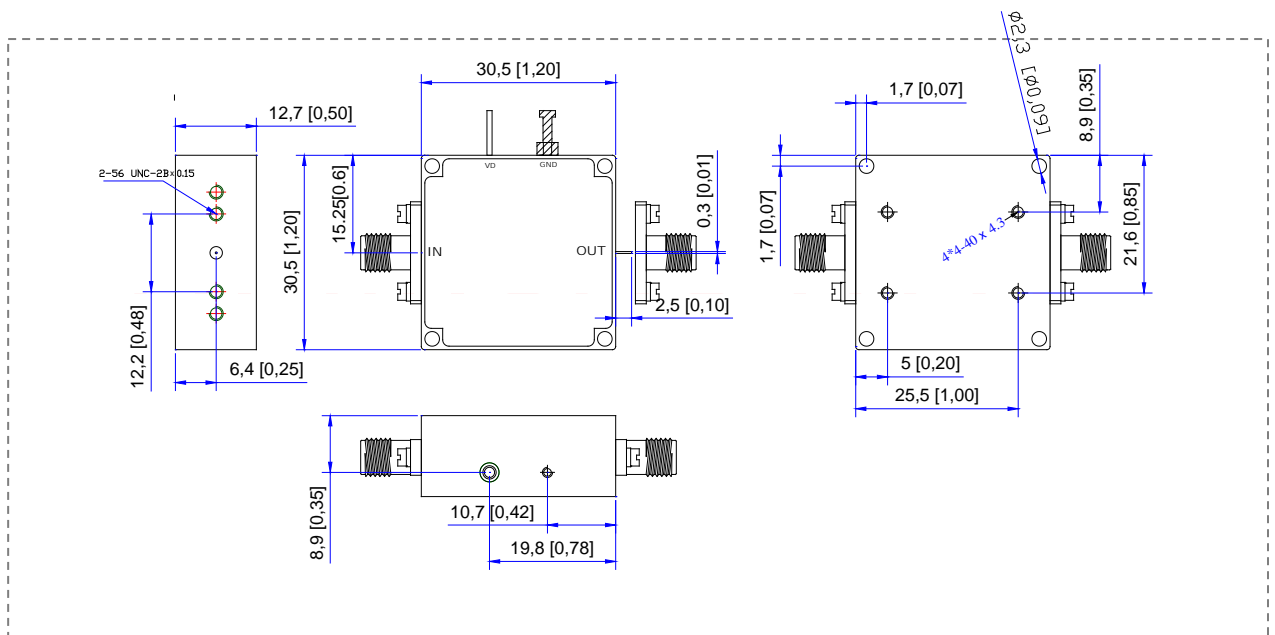
Supply Bias Voltage	12V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

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



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