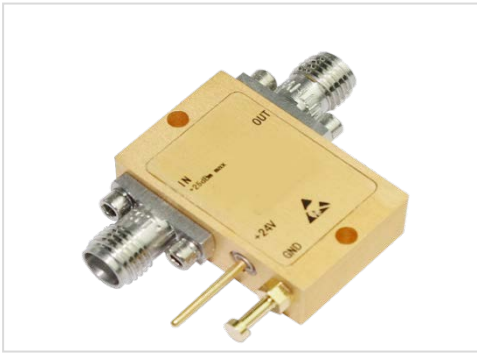


MODEL HILNA25403020

25-40GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 25-44GHz
- Gain: 30dB
- Output Power: 0dBm
- High Output IP3: 11dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	25-40			GHz
Gain	29	30		dB
Gain Flatness		± 1.5	± 2.0	dB
Input VSWR		1.8	2.5	-
Output VSWR		1.8	2.2	-
Output Power for 1 dB Compression (P1dB)	0	1		dBm
Noise Figure		2	3	dB
Output IP3		11		dBm
Input Max Power(no damage)			-25	dBm
DC Current (Vcc=+12V)		50		mA
Impedance	50			Ω
Input Output Connector	2.92			
Material	Aluminium\Gold Painting			
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

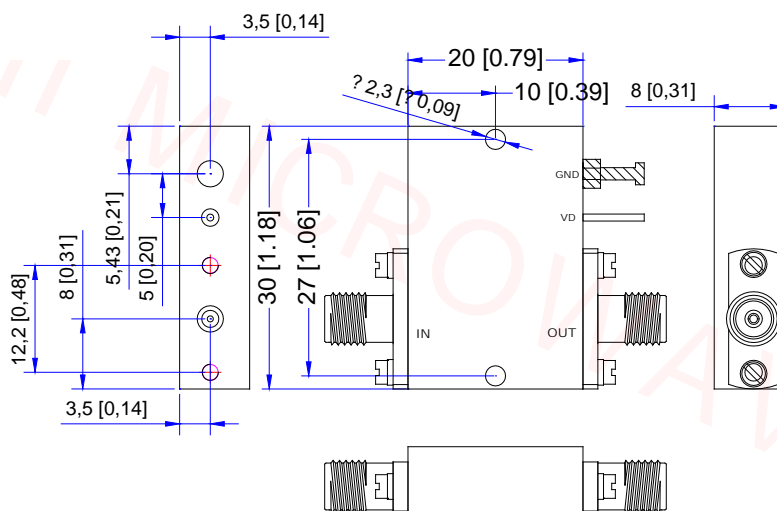
Absolute Maximum Ratings

Supply Bias Voltage	+12V
RF INPUT POWER	-25dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



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