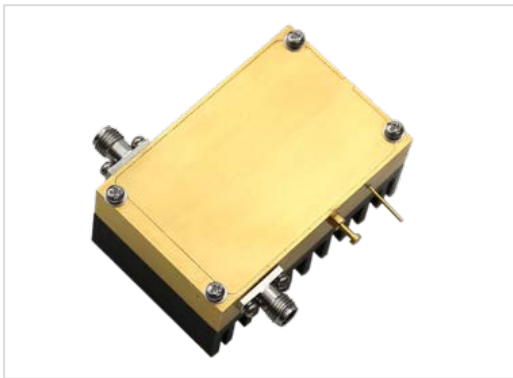


MODEL HIPAH3203527

0.03-20GHz Ultra Power Amplifier



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

■ Features

- Ultra Wide Band: 0.03-20GHz
- Gain: 30dB
- Output Power P-1: 27dBm
- Bias: Vd=12V;Id=0.5A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications


Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range	0.03-2		2-20				GHz
Small Signal Gain	30	35		30	35		dB
Gain Flatness		±1.5	±2.0		±1.5	±2.0	dB
Input VSWR		1.4	1.8		1.4	1.8	-
Output VSWR		1.5	2.0		1.5	2.0	-
NF		3.5	4.5		2.5	3.5	dB
Output Power (P1dB)	26	27		26	27		dBm
Saturated Output Power (Psat)		28			28		dBm
Spurious		-60			-60		dBc
Input Max Power(no damage)			5			5	dBm
DC Current (Vcc=+12V)		500			500		mA
Impedance	50						Ω
Input Output Connector	SMA-K						
Material	Aluminium/Conductive oxide						
Weight	200g						
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	+15V
RF INPUT POWER	5dBm
ESD sensitivity (HBm)	Class 0, passed 150V

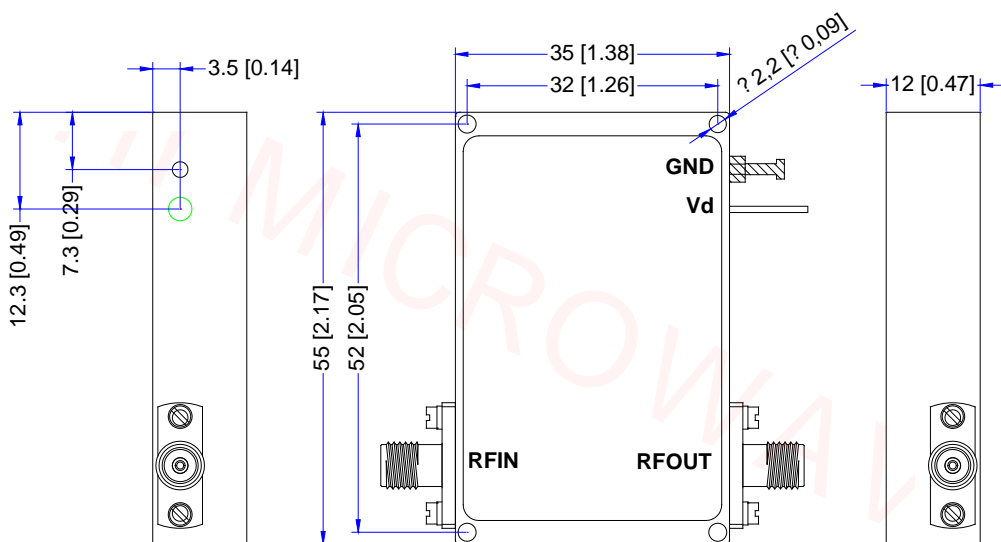


OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES



Outline Drawing

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



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