

# MODEL HIPA01403020AC

## 1-40GHz Low Noise AC Amplifier



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

### ■ Features

- Ultra Wide Band: 1-40GHz
- Gain: 30dB
- Output Power: 23dBm
- High Output IP3: 30dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems


### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	1-40			GHz
Gain	28	30		dB
Gain Flatness		± 1.5	± 2	dB
Input VSWR		1.7	2.5	-
Output VSWR		1.7	2.5	-
Output Power for 1 dB Compression (P1dB)	20	21		dBm
Output Power Past		22		dBm
Noise Figure		6	7	dB
Output IP3	28			dBm
Input Max Power(no damage)			0	dBm
AC	110~220/50Hz			
Impedance	50			Ω
Input Output Connector	2.92-k			
Material	Aluminium			
Weight	800g			
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		 <p>OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES</p>
RF INPUT POWER	0dBm	
ESD sensitivity (HBm)	Class 0, passed 150V	



### Outline Drawing

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

