

MODEL HILNA01184525AC

1-18GHz Low Noise AC Amplifier



■ Features

- Ultra Wide Band: 1-18GHz
- Gain: 45dB
- Output Power: 10dBm
- High Output IP3: 20dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	1-18			GHz
Gain	43	45		dB
Gain Flatness		±1.5	±2	dB
Input VSWR		1.7	2.0	-
Output VSWR		1.7	2.0	-
Output Power for 1 dB Compression (P1dB)	10	12		dBm
Output Power Past		13		dBm
Noise Figure		2.5	3.5	dB
Output IP3		20		dBm
Input Max Power(no damage)			-30	dBm
AC	110~220/50Hz			
Impedance	50			Ω
Input Output Connector	SMA-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	
RF INPUT POWER	-30dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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

