



Features and Benefits

- 7.25 to 7.75GHz Frequency Range
- Gain Flatness $< \pm 0.5\text{dB}$
- Typical N.F. $< 44^\circ\text{K}$
- High Gain (54dB)
- +33dBm IP3
- Internal DC regulator
- Advance PHEMT Technology
- Reverse Voltage Protection
- MIL-883, MIL45208 construction and reliability
- Weatherproof package
- WR112G Input Flange

Typical Applications

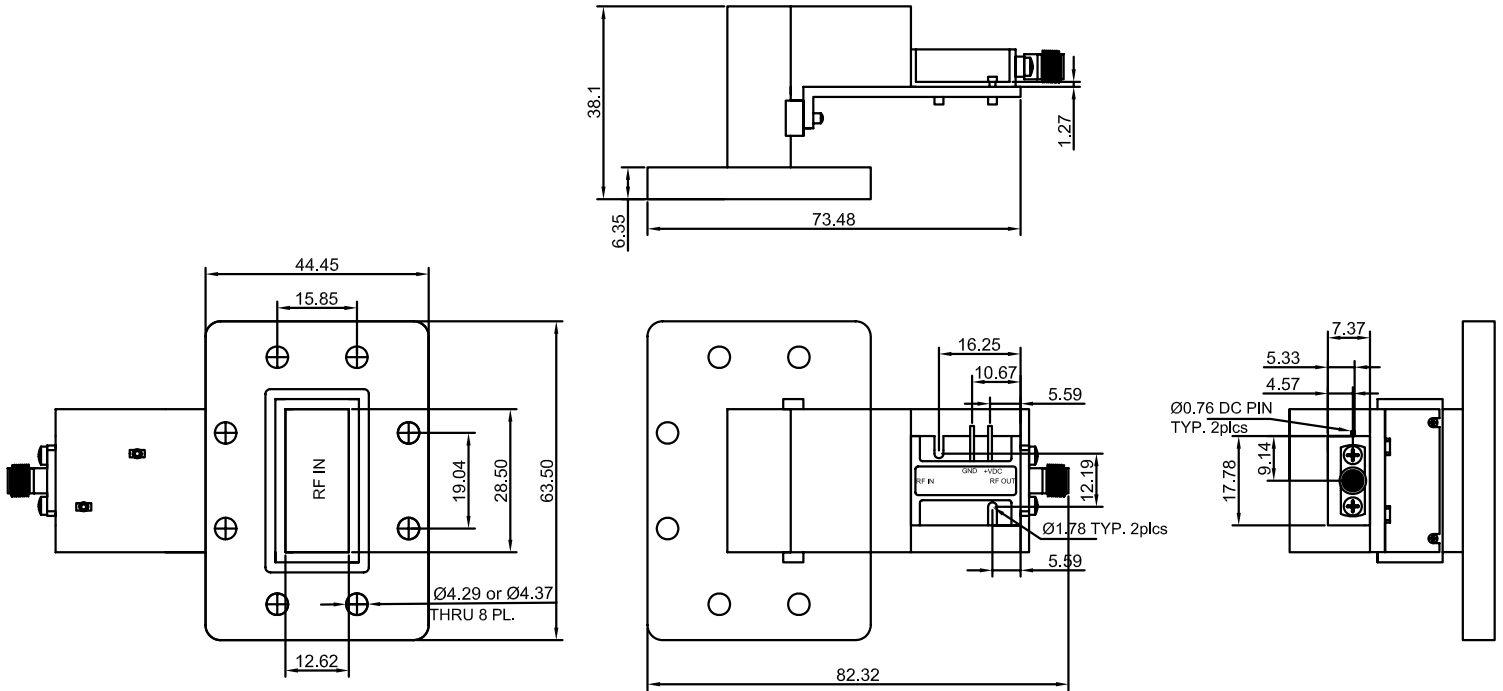
- Radar Systems
- SATCOM
- VSAT terminals
- Receiver Front End
- Test Equipment
- Telemetry

Description

The LNA6373X-7.25GHz-7.75GHz-A is a Low Noise Amplifier with right –angle WR-112G waveguide input flange and super low noise figure ($< 44^\circ\text{K}$) and high IP3 of +33dBm. Other options are also available with custom flatness, VSWR, P1dB, and flanges.

Mechanical Drawing & Pin Connections

Drawing No:MD170006-1



Unit: mm
1mm=0.0394inch



Key Specifications at 23°C

Parameter	Value			Unit	Note
	Min.	Typ.	Max.		
Frequency	7.25		7.75	GHz	Customizable
Gain	50	54	-	dB	Customizable
Gain Flatness	-	±0.5	±1.0	dB	Customizable
In/Out VSWR	-	1.25	1.50	-	Customizable
Output P1dB	+20	+22	-	dBm	Customizable
DC Power	+11	+12	+16	V@mA	@175 mA
Noise Figure	-	40	44	°K	0.60dB

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit	Note
Operating Temperature (Case)	-54	+85	°C	95% humidity, non-condensing
Storage Temperature (Case)	-54	+115	°C	95% humidity, non-condensing
RF Input Power	-	15	dBm	CW
Die Junction Temp (Tj)	-	+150	°C	For GaAs devices
Positive Supply Voltage		+16	V	At +V RF Output
Negative Voltage	-	-10	V	Reverse Voltage

Typical Measured Data

