



NARROW BAND LOW NOISE AMPLIFIER

MNL140145G3015

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	14.0		14.5	GHz
Small Signal Gain	30			dB
Small Signal Gain Flatness			±0.75	dB
Noise Figure			1.5	dB
Output Power 1dB compression	12			dBm
IP3				dBm
VSWR Input/output			2:1	Ratio
DC Power Supply		12		Volt
Current		175		mA

ENVIRONMENTAL RATINGS:

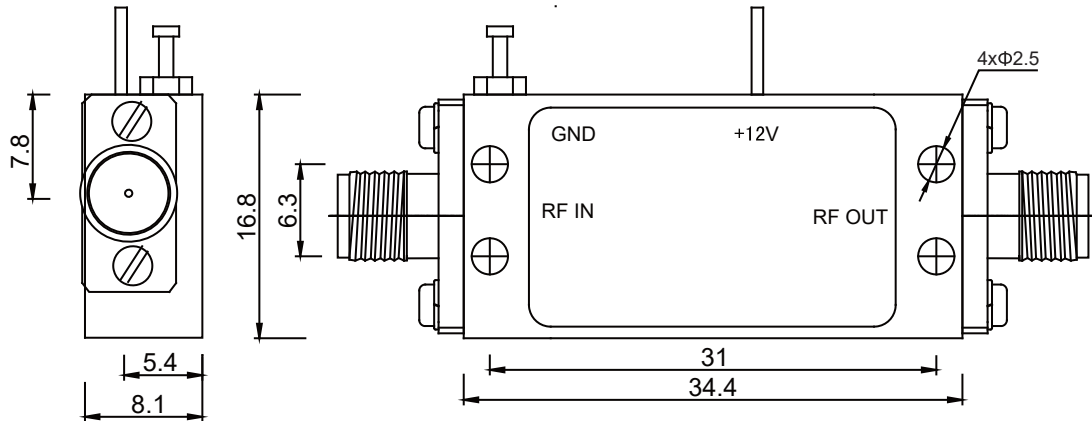
Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	34.4*16.8*8.1	Max	Millimeter
Weight	50	Max	gram
RF Connectors Input	SMA-F		
RF Connectors output	SMA-F		
Impedance	50		ohms

Note:miniature size,drop-in ,SMT and customized specification is also available

OUTLINE DRAWING(mm):



BH2

TEST DATA:

Frequency range (GHz)	Gain (dB.Min)	Gain Flatness (±dB.Max)	Noise Figure (dB.max)	P-1dB (dBm.min)	Input VSWR (max)	Output VSWR (max)	Current +12V (mA)
14-14.5	34.7	±0.4	1.5	15	1.8	1.58	138

