



NARROW BAND LOW NOISE AMPLIFIER

MNL034042G1518

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	3.4		4.2	GHz
Small Signal Gain	15		16	dB
Small Signal Gain Flatness			±0.4	dB
Noise Figure			1.8	dB
Output Power 1dB compression	16			dBm
IP3				dBm
VSWR Input/output			1.4:1.5	Ratio
DC Power Supply		12		Volt
Current		150		mA

ENVIRONMENTAL RATINGS:

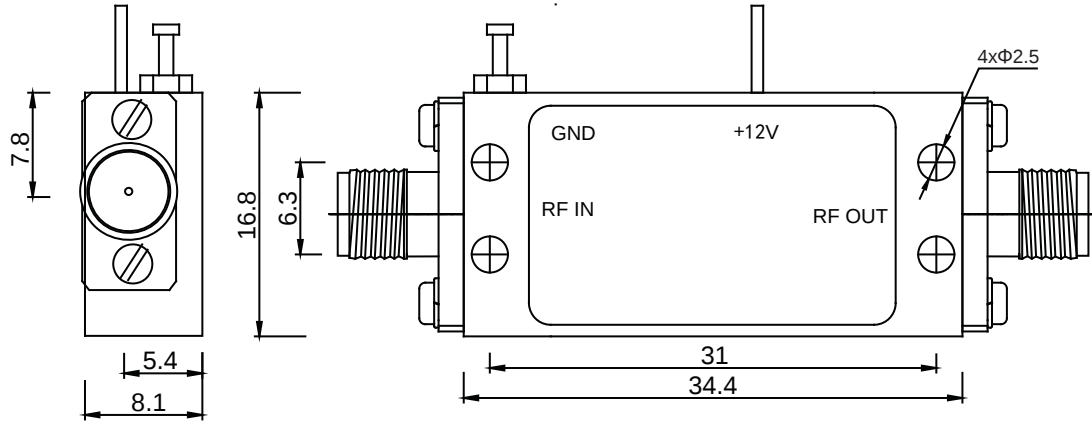
Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

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):



TEST DATA:

Characteristic	Specification	Test Data
Part Number	MNL034042G1518	MNL034042G1518
Frequency Range	3.4-4.2GHz	3.4-4.2GHz
Small Signal Gain	15-16dB	15-16dB
Small Signal Gain Flatness	±0.4dB	±0.3dB
Noise Figure	1.8dB	1.75dB
Output Power 1dB compression	16dBm	16.1dBm
VSWR Input/output	1.5/1.5	1.4/1.5
DC Power Supply	12V	12V
Current	150mA	70mA