



WIDE BAND LOW NOISE AMPLIFIER

MLB0218G1535

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes for drop-In Assembly
- Hermetically Sealed Package for Military Application

APPLICATIONS

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



ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	2		18	GHz
Small Signal Gain	15			dB
Small Signal Gain Flatness			±2	dB
Noise Figure		3.5		dB
Output Power 1dB compression	15			dBm
IP3				dBm
VSWR			2:1	Ratio
DC Power Supply		12		Volt
Current		100		mA

ENVIRONMENTAL RATINGS:

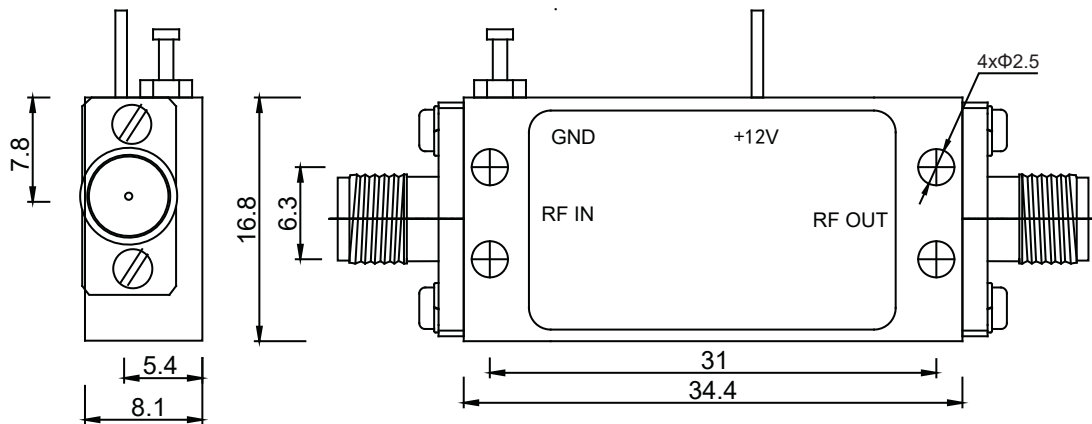
Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

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)	GAN(dB.Min) ≥12dB	Gain Flatness ± (dB) ≤±1.8dB	Noise Figure (dB.Max)≤3.5dB	Output Power P-1(dB.Min)≥12dBm	Input VSWR Max≤2	Output VSWR Max≤2	DC Power Supply @+12V (mA)
2-18	12.1	±1.4	3.5	13	1.66	1.95	70