



WIDE BAND LOW NOISE AMPLIFIER

MLB0204G3010

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	2		4	GHz
Small Signal Gain	30			dB
Small Signal Gain Flatness			±1	dB
Noise Figure			1.0	dB
Output Power 1dB compression	12			dBm
IP3				dBm
VSWR Input/output			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		

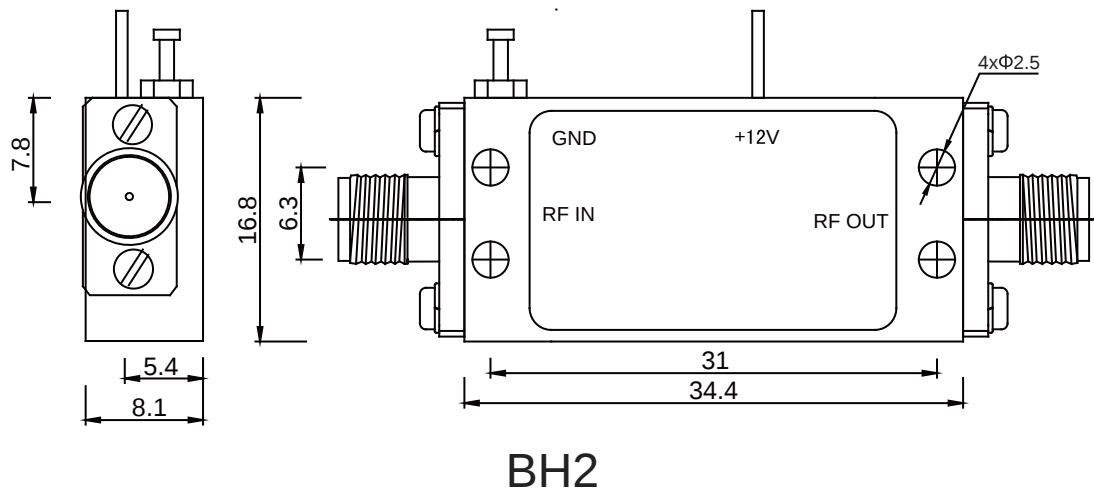
MECHANICAL SPECIFICATIONS:

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

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OUTLINE DRAWING(mm):



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)
1	2-4	31.8	±1.0	1	14	1.89	1.97	80