



WIDE BAND LOW NOISE AMPLIFIER

MLB0812G3214

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	8		12	GHz
Small Signal Gain	32			dB
Small Signal Gain Flatness		±1.5	±1	dB
Noise Figure			1.4	dB
Output Power 1dB compression	10			dBm
IP3			2:1	dBm
VSWR Input/output				Ratio
DC Power Supply		12		Volt
Current		150		mA

ENVIRONMENTAL RATINGS:

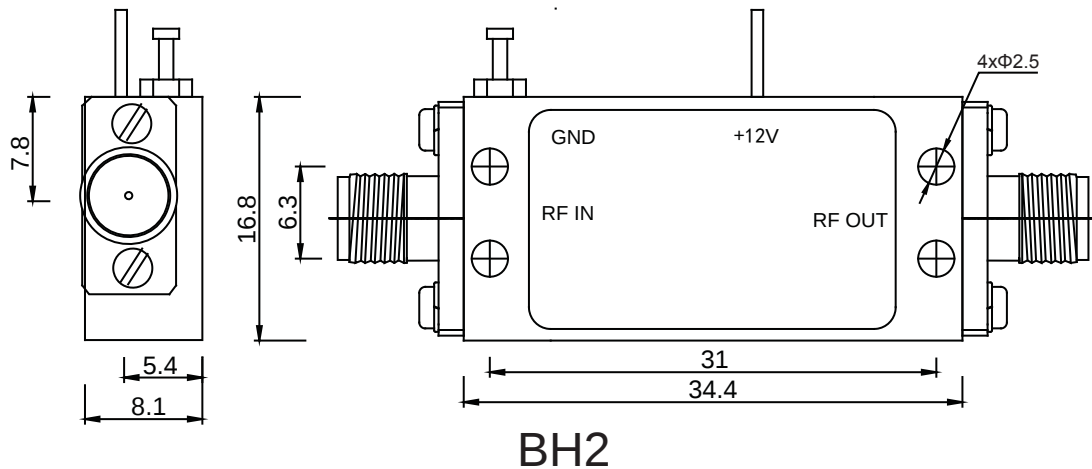
Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

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	MLB0812G3214	MLB0812G3214
Frequency Range	8-12GHz	8-12GHz
Small Signal Gain	32dB	33dB
Small Signal Gain Flatness	±1.5dB	±1.23dB
Noise Figure	1.4dB	1.4dB
Output Power 1dB compression	10dBm	11.8dBm
VSWR Input/output	2:1	1.8:1
DC Power Supply	12V	12V
Current	150mA	150mA



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TEST CURVE:

