



NARROW BAND LOW NOISE AMPLIFIER

MNL142153G2015

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	14.2		15.35	GHz
Small Signal Gain	20			dB
Small Signal Gain Flatness			±1.5	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

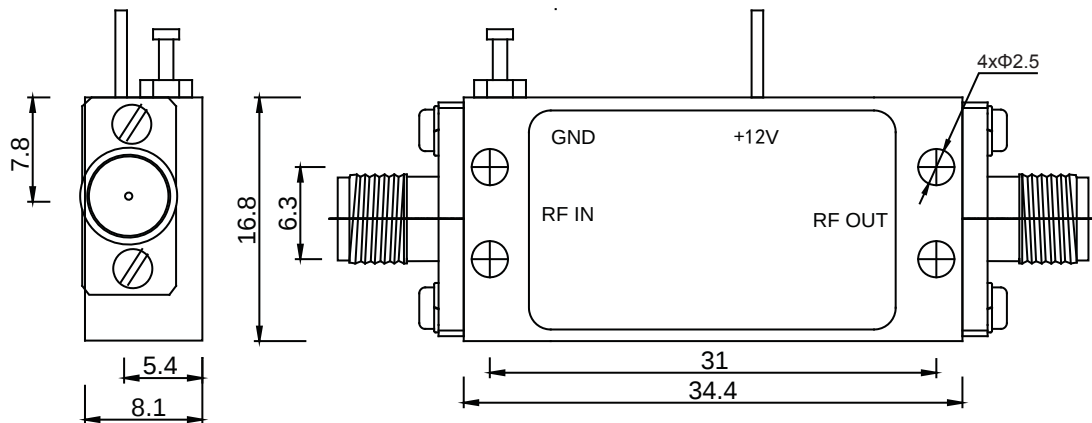
Note:miniature size,drop-in ,SMT and customized specification is also available



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OUTLINE DRAWING(mm):



BH2



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TEST DATA:

Characteristic	Specification	Test Data
Part Number	MNL142153G2015	MNL142153G2015
Frequency Range	14.2-15.35GHz	14.2-15.35GHz
Small Signal Gain	20dB	23dB
Small Signal Gain Flatness	±1.5dB	±1.4dB
Noise Figure	1.5dB	1.5dB
Output Power 1dB compression	12dBm	12dBm
VSWR Input/output	2:1	1.7:1
DC Power Supply	12V	12V
Current	175mA	100mA

TEST CURVE:

