



WIDE BAND LOW NOISE AMPLIFIER

MLB0812G2725

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	27			dB
Small Signal Gain Flatness			±2	dB
Noise Figure			2.5	dB
Output Power 1dB compression	18			dBm
IP3				dBm
VSWR Input/output			2:1	Ratio
DC Power Supply		12		Volt
Current		200		mA

ENVIRONMENTAL RATINGS:

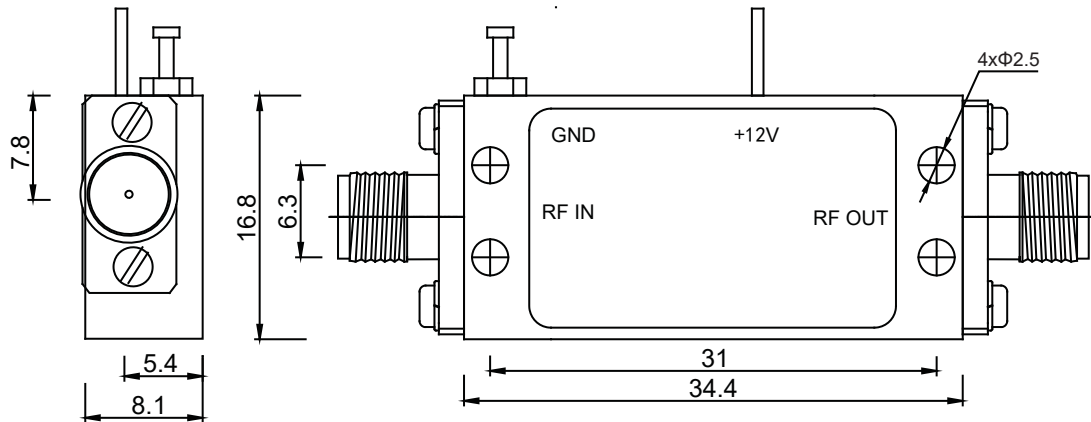
Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

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:

characteristic	specification	test data
Frequency range	8-12GHz	8-125GHz
Small Signal Gain	27dB	28.9dB
Small Signal Gain Flatness	±2	±2
Noise Figure	2.5dB	2.1dB
Output Power 1dB compression	18dBm	19dBm
VSWR Input/output	2.0:1	1.65:1/1.9:1
DC Power Supply	12V	12V
Current	200mA	180mA