



WIDE BAND LOW NOISE AMPLIFIER

MLB0503G2520

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	0.5		3	GHz
Small Signal Gain	25			dB
Small Signal Gain Flatness			±1.25	dB
Noise Figure			2.0	dB
Output Power 1dB compression	12			dBm
IP3				dBm
VSWR Input/output			2:1	Ratio
DC Power Supply		12		Volt
Current		180		mA

ENVIRONMENTAL RATINGS:

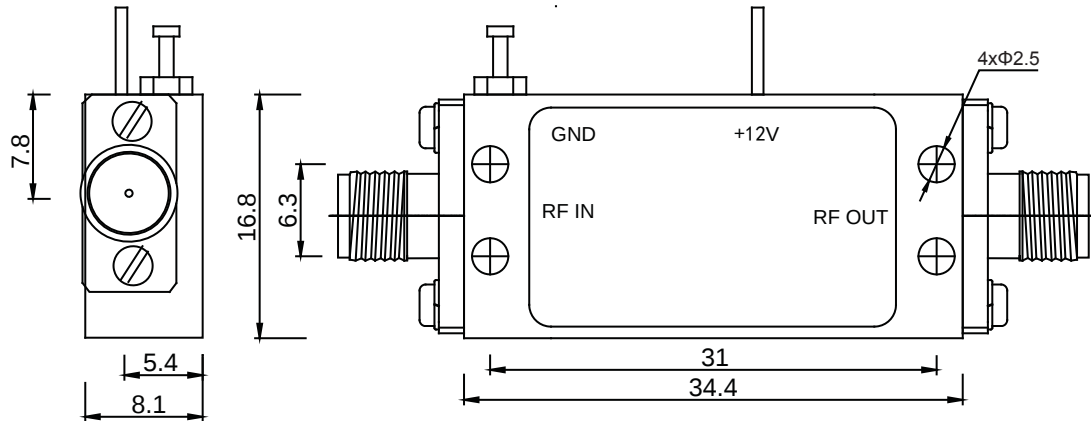
Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

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
Part Number	MLB0503G2520	MLB0503G2520
Frequency Range	0.5-3GHz	0.5-3GHz
Small Signal Gain	31.7dB(25dB min)	32.1dB
Small Signal Gain Flatness	±0.9dB(1.25dB max)	±0.93dB
Noise Figure	1.87dB(2dB max)	1.8dB
Output Power 1dB compression	12.5dBm(12dBm min)	15.5dBm
VSWR Input/output	2:1	2:1
DC Power Supply	12V	12V
Current	180mA	160mA



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TEST CURVE:

