



WIDE BAND LOW NOISE AMPLIFIER

MLB0103G5314

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	1		3	GHz
Small Signal Gain @25°C		50	53	dB
Small Signal Gain Flatness		±1.25		dB
Small Signal Gain Variation		±0.5		
Noise Figure		1.2	1.4	dB
Isolation		65		dB
Spurious		-60		dBc
Output Power 1dB compression		11		dBm
Inputt VSWR			1.7:1	Ratio
Outpu VSWR			1.5:1	Ratio
DC Power Supply		12		Volt
Current		170		mA

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	0		+50	°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	54.8*22.5*19	Max	Millimeter
Weight	80	Max	gram
RF Connectors Input	N-F		
RF Connectors output	N-F		
Impedance	50		ohms

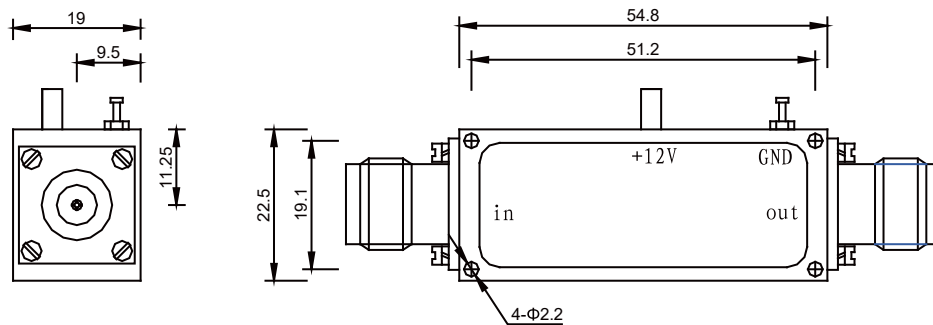
Note:miniature size,drop-in ,SMT and customized specification is also available



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OUTLINE DRAWING(mm):



BH16

TEST DATA:

Frequency range(GHZ)	GAN(dB)	Gain Flatness(dB)	Noise Figure(dB)	P-1dB (dBm)	Input VSWR Max	Output VSWR Max	DC Power Supply @+12V (mA)
1-3	50.1	0.7	1.02	12.5	1.64	1.24	170