



# WIDE BAND LOW NOISE AMPLIFIER

## MLB0502G2121

### 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 |         | 2     | GHz   |
| Small Signal Gain            | 21  |         |       | dB    |
| Small Signal Gain Flatness   |     |         | ±1.25 | dB    |
| Noise Figure                 |     |         | 2.1   | dB    |
| Output Power 1dB compression | 18  |         |       | dBm   |
| IP3                          |     |         |       | dBm   |
| VSWR Input/output            |     |         | 2:1   | Ratio |
| DC Power Supply              |     | 12      |       | Volt  |
| Current                      |     | 100     |       | 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:

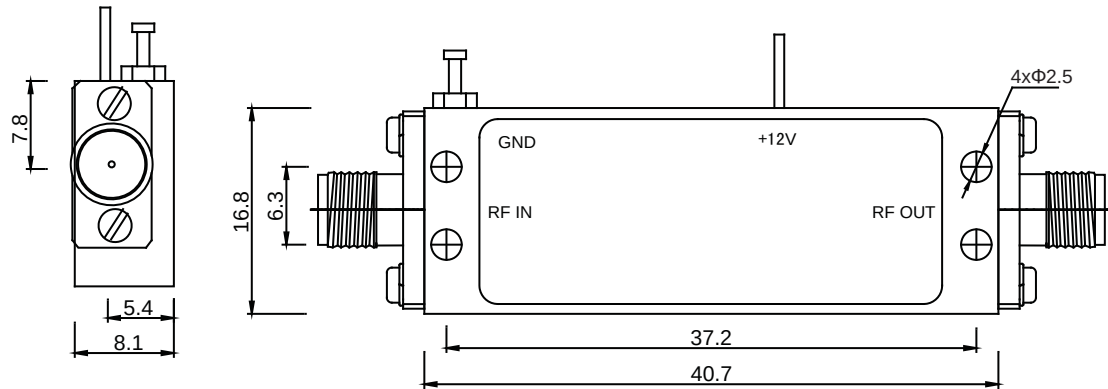
| Parameter            | Value         | Limits | Units      |
|----------------------|---------------|--------|------------|
| Dimensions           | 40.7*16.8*8.1 | Max    | Millimeter |
| Weight               | 50            | Max    | gram       |
| RF Connectors Input  | SMA-F         |        |            |
| 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):



BH3