



# NARROW BAND LOW NOISE AMPLIFIER

## MNL090095G3614

### 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              | 9.0 |         | 9.5   | GHz   |
| Small Signal Gain            | 36  |         |       | dB    |
| Small Signal Gain Flatness   |     |         | ±0.75 | dB    |
| Noise Figure                 |     |         | 1.4   | dB    |
| Output Power 1dB compression | 12  |         |       | dBm   |
| IP3                          |     |         |       | dBm   |
| VSWR Input/output            |     |         | 2:1   | Ratio |
| DC Power Supply              |     | 12      |       | Volt  |
| Current                      |     | 200     |       | mA    |

### ENVIRONMENTAL RATINGS:

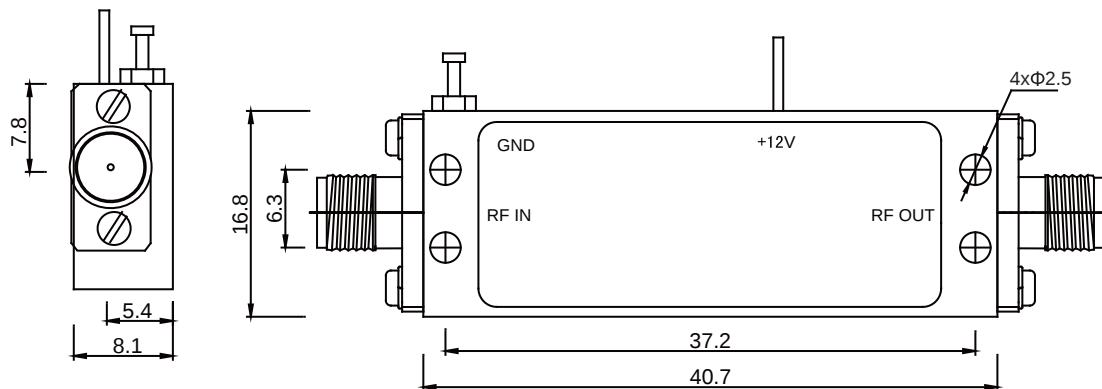
| Parameter                          | Min   | Typical | Max   | Units |
|------------------------------------|-------|---------|-------|-------|
| Max Input power                    |       |         | +20   | dBm   |
| Operating Temperature              | -40   |         | +85   | °C    |
| Non-operating 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           | 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

#### OUTLINE DRAWING(mm):



BH3

#### TEST DATA:

| Characteristic               | Specification  | Test Data      |
|------------------------------|----------------|----------------|
| Part Number                  | MNL090095G3614 | MNL090095G3614 |
| Frequency Range              | 9-9.5GHz       | 9-9.5GHz       |
| Small Signal Gain            | 36dB           | 37.26dB        |
| Small Signal Gain Flatness   | ±0.75dB        | ±0.3dB         |
| Noise Figure                 | 1.4dB          | 1.3dB          |
| Output Power 1dB compression | 12dBm          | 12.5dBm        |
| VSWR Input/output            | 2:1            | 1.52:1         |
| DC Power Supply              | 12V            | 12V            |
| Current                      | 200mA          | 180mA          |