



# NARROW BAND MEDIUM POWER AMPLIFIER

## MNM085096G3023

### FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes for drop-In Assembly
- Hermetically Sealed Package for Military Application

### APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



### ELECTRICAL SPECIFICATIONS@25°C:

| Parameter                    | Min | Typical | Max | Units |
|------------------------------|-----|---------|-----|-------|
| Frequency Range              | 8.5 |         | 9.6 | GHz   |
| Small Signal Gain            | 30  |         |     | dB    |
| Small Signal Gain Flatness   |     |         | ±1  | dB    |
| Noise Figure                 |     |         | 4   | dB    |
| Output Power 1dB compression | 23  |         |     | dBm   |
| IP3                          |     |         |     | dBm   |
| VSWR Input/output            |     |         | 2:1 | Ratio |
| DC Power Supply              |     | 12      |     | Volt  |
| Current                      |     | 350     |     | mA    |

### ENVIRONMENTAL RATINGS:

| Parameter                          | Min   | Typical | Max   | Units |
|------------------------------------|-------|---------|-------|-------|
| Max Input power                    |       |         | 20    | dBm   |
| Operating Temperature              | -55   |         | +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:

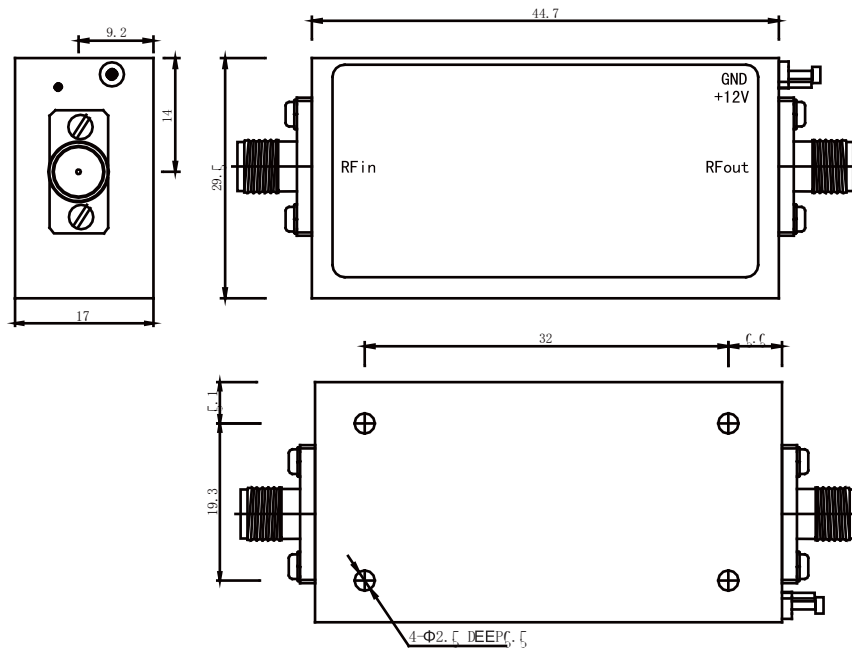
| Parameter            | Value        | Limits | Units      |
|----------------------|--------------|--------|------------|
| Dimensions           | 44.7*29.5*17 | Max    | Millimeter |
| Weight               | 80           | Max    | gram       |
| RF Connectors Input  | SMA-F        |        |            |
| 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):



DH4

## 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) |
|----------------------|---------|-------------------|------------------|--------------|----------------|-----------------|----------------------------|
| 8.5-9.6              | 35.1    | $\pm 0.75$        | 3.95             | 23.2         | 1.35           | 1.52            | 180                        |