

### FEATURES

- Coverage From 0.5 to 18 GHz
- 10-20dB Of Gain Control 0-5VDC
- Small Signal Gain of 18-45dB
- Compact Thin-Film Construction
- High Frequency Stability&High Reliability
- Operating temperature:-55~+85°C

### APPLICATIONS

- Test Instrumentation
- Communication System
- Radar&Warfare system



### ELECTRICAL SPECIFICATIONS@25°C:

| Parameter                         | Min | Typical | Max   | Units |
|-----------------------------------|-----|---------|-------|-------|
| Frequency Range                   | 2   |         | 4     | GHz   |
| Gain                              | 25  |         |       | dB    |
| Gain Control Range                | 0   |         | 10    | dB    |
| Gain Flatness                     |     |         | ±0.75 | dB    |
| Noise Figure@Min Gain Control     |     |         | 2     | dB    |
| Noise Figure@Max Gain Control     |     |         | 3     | dB    |
| Output Power 1dB@Min Gain Control | 15  |         |       | dBm   |
| Output Power 1dB@Max Gain Control | 12  |         |       | dBm   |
| VSWR Input/output                 |     |         | 2:1   | Ratio |
| Gain Control Voltage Range        | 0   |         | +5    | Volt  |
| DC Power Supply                   |     | 12      |       | Volt  |
| Current                           |     | 200     |       | mA    |

### ENVIRONMENTAL RATINGS:

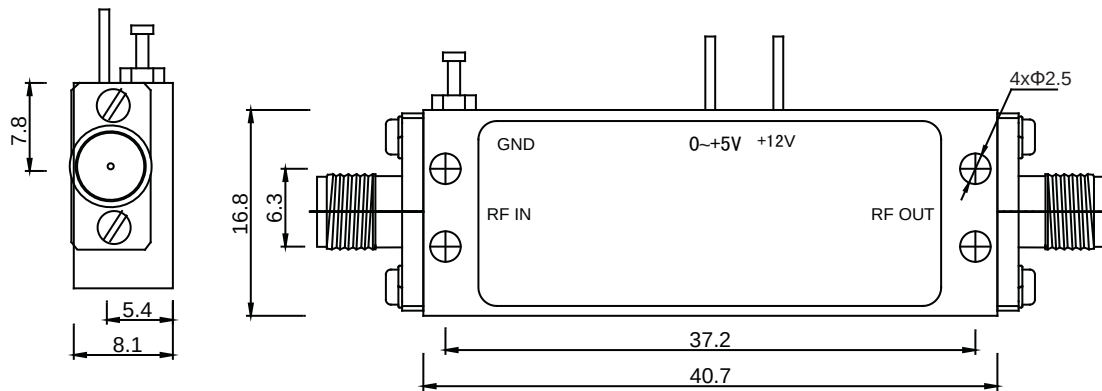
| Parameter                          | Min   | Typical | Max   | Units |
|------------------------------------|-------|---------|-------|-------|
| Max Input power                    |       |         | +20   | dBm   |
| Operating Temperature              | -40   |         | +85   | °C    |
| Non-operating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