**CLN-6G18G-4820-S** is a Low Noise Amplifier providing a gain of 48 dB with a noise figure of 2.0 dB. The compact size and modularity makes it ideal for a wide range of applications.

Features:

- Frequency Range: 6.0-18.0 GHz
- Gain: 48 dB min.
- Noise Figure: 2.0 dB max.
- Solder filtered pins for DC connection
- Low VSWR, unconditional stable

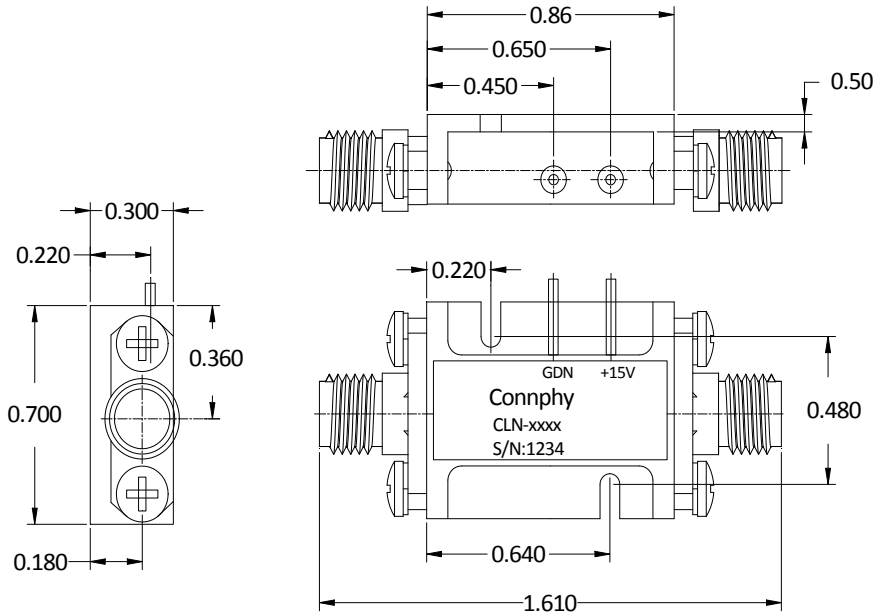
## Specifications:

| | |
|---|---|
| Frequency: | 6.0-18.0 GHz |
| Gain: | 48 dB Min |
| Gain Flatness: | ±2.0 dB Max |
| Noise Figure: | 2.0 dB Max |
| Output P1dB: | 10 dBm Min |
| VSWR Input: | 2.5:1 Max |
| VSWR Output: | 2.5:1 Max |
| DC Voltage: | +15 V Typ |
| DC Supply Current: | 200 mA Typ |
| RF Connector: | SMA female |

## Environmental Ratings:

| | |
|---|---|
| Temperature: | -40ºC to +75 ºC Operating |
| | -55 ºC to +125 ºC Non-Operating |
| Vibration: | MIL-STD-202F, Method 204D Cond. B |
| Altitude: | MIL-STD-202F, Method 105C Cond. B |
| Temperature Cycle: | MIL-STD-202F, Method 107D Cond. A |

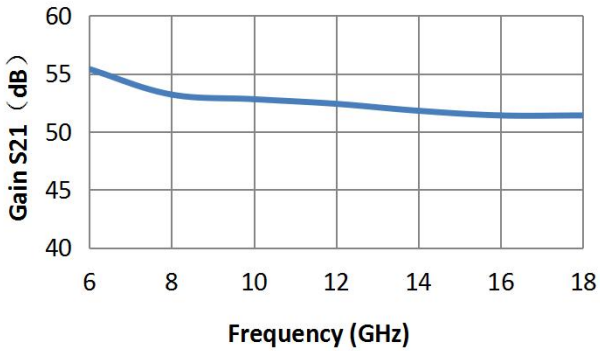
## Mechanical Outline(Inches):



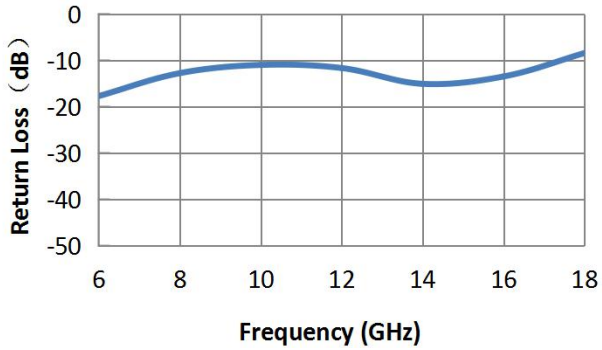

| Low Noise Amplifier<br>CLN-6G18G-4820-S | | | |
|---|---|---|---|
| DRAWN: | DWG NO.: | REV CODE:<br>Rev.1.0 | CONNPHY Microwave Inc.<br>www.connphy.com<br>sales@connphy.com |
| CHECKRD: | DATE:<br>14/05/15 | SHEET :<br>1 OF 2 | |
| ISSUED: | SIZE:<br>A | SCALE :<br>N / A | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE. |

## Typical Performance Data:

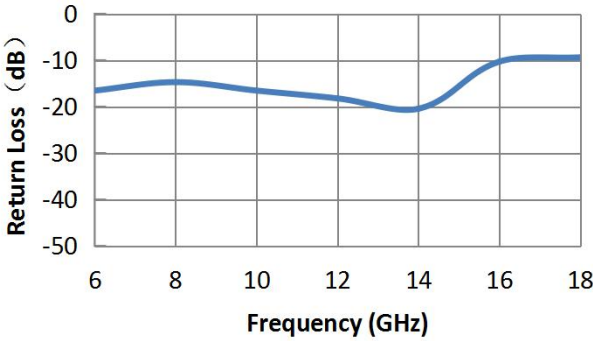
### Gain S21



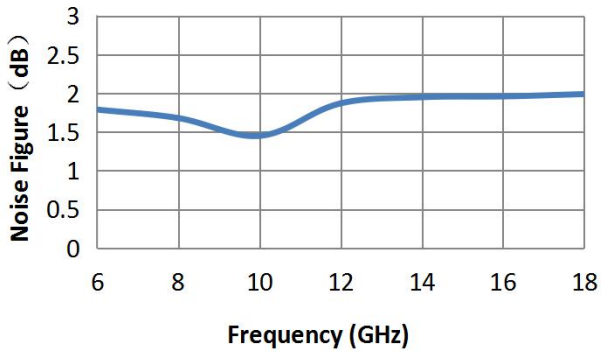

### S11



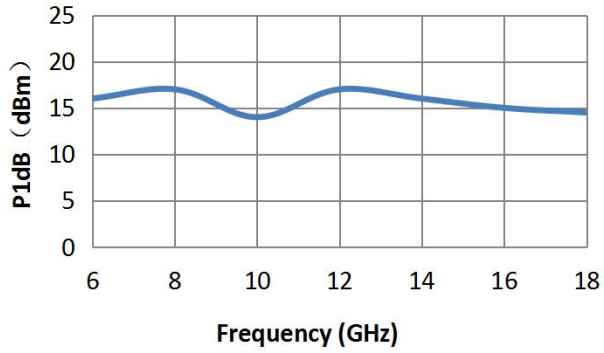

### S22




### Noise Figure




### Output P1dB




Note: Test data taken with case temperature of +23 ºC

## Environmental Ratings:

| | |
|---|---|
| Temperature: | -40ºC to +75 ºC Operating |
| | -55 ºC to +125 ºC Non-Operating |
| Vibration: | MIL-STD-202F, Method 204D Cond. B |
| Altitude: | MIL-STD-202F, Method 105C Cond. B |
| Temperature Cycle: | MIL-STD-202F, Method 107D Cond. A |

**Low Noise Amplifier**
**CLN-6G18G-4820-S**

| | | | |
|---|---|---|---|
| DRAWN: | DWG NO.: | REV CODE: Rev.1.0 | CONNPHY Microwave Inc. www.connphy.com sales@connphy.com |
| CHECKRD: | DATE: 14/05/15 | SHEET : 2 OF2 | |
| ISSUED: | SIZE: A | SCALE : N / A | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE. |