

**CLC-0.5G18G-2725-S** is a Low Noise Amplifier providing a gain of 27 dB with a noise figure of 3.5 dB. The compact size and modularity makes it ideal for a wide range of applications.

**Features:**

- Frequency Range: 0.5-18.0 GHz
- Gain: 24 dB min.
- Noise Figure: 3.5 dB max.
- Solder filtered pins for DC connection
- Low VSWR, unconditional stable

**Specifications:**

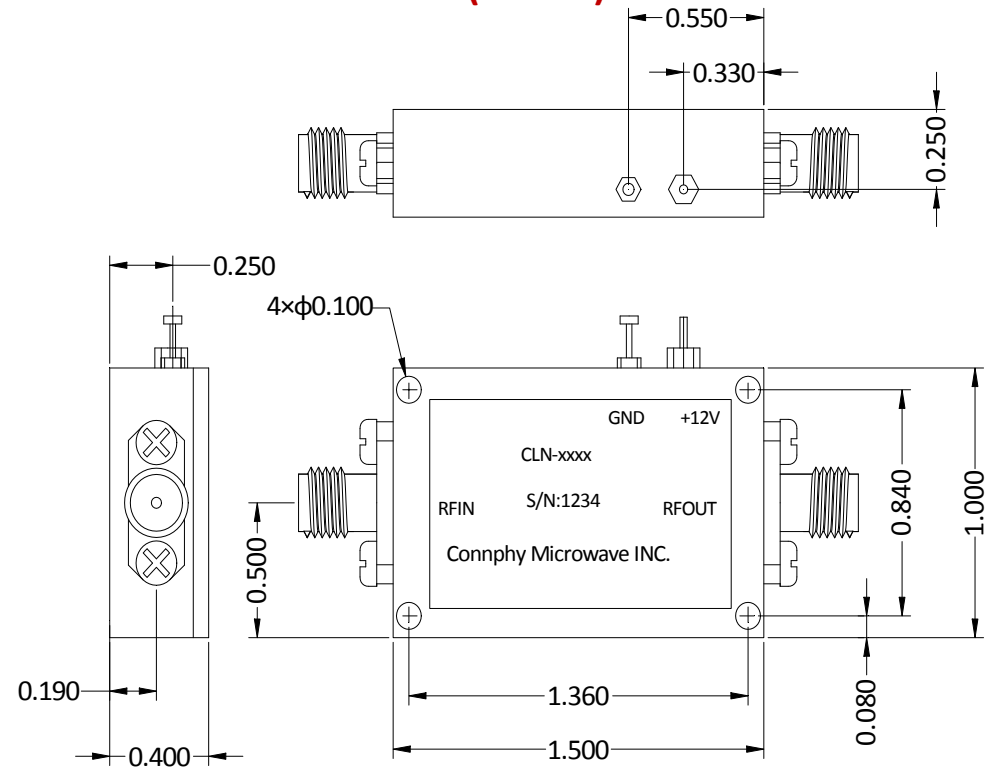
Frequency: 0.5-18.0 GHz  
 Gain: 27 dB Typ , 24 dB Min  
 Gain Flatness: ±2.5 dB Max  
 Noise Figure: 2.5 dB Typ , 3.5 dB Max  
 Output P1dB: +20 dBm Min  
 VSWR Input: 2:1 Typ , 2.5:1 Max  
 VSWR Output: 2:1 Typ , 2.5:1 Max  
 DC Voltage: +12 V Typ.  
 DC Supply Current: 500 mA Max.  
 RF Connector: SMA Female


NOTE:Noise figures increase below 700 MHz

**Environmental Ratings:**

Temperature: -40°C to +75 °C Operating  
 -55 °C to +125 °C 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

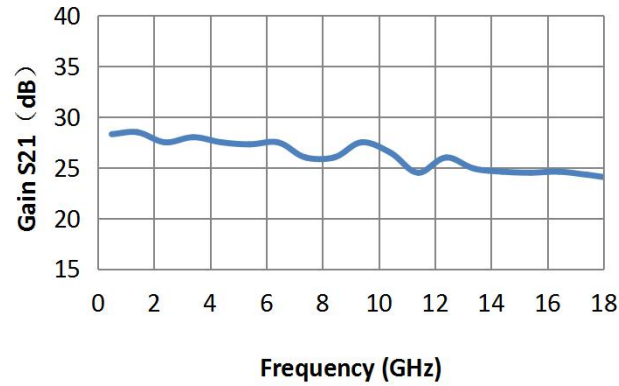
**Mechanical Outline(Inches):**



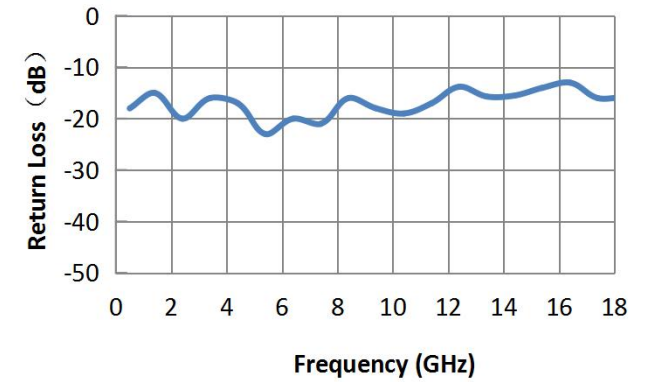
| Low Noise Amplifier<br>CLC-0.5G18G-2725-S |                   |                      |   |
|---|-------------------|----------------------|---|
| DRAWN:                                    | DWG NO.:          | REV CODE:<br>Rev.1.0 | <br><a href="http://www.connphy.com">www.connphy.com</a><br><a href="mailto:sales@connphy.com">sales@connphy.com</a> |
| 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:

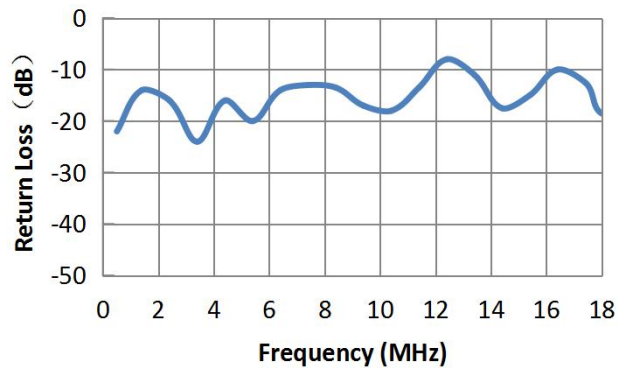
### S21



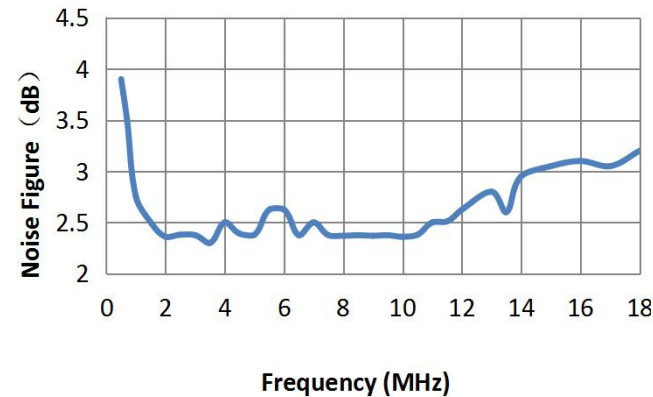
### S11



### S22



### Noise Figure




Note: Test data taken with case temperature of +23 °C

## Environmental Ratings:

|                    |  |
|--------------------|--|
| Temperature:       | -40°C to +75 °C Operating<br>-55 °C to +125 °C 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                            |

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