

CLN-0.1G30G-3545-K is a Low Noise Amplifier providing a gain of 35 dB with a noise figure of 4.5 dB. The compact size and modularity makes it ideal for a wide range of applications.

Features:

- Frequency Range:0.1-30.0 GHz
- Gain: 35 dB Typ.
- Noise Figure: 5.5 dB Max
- Solder filtered pins for DC connection
- Low VSWR, unconditional stable

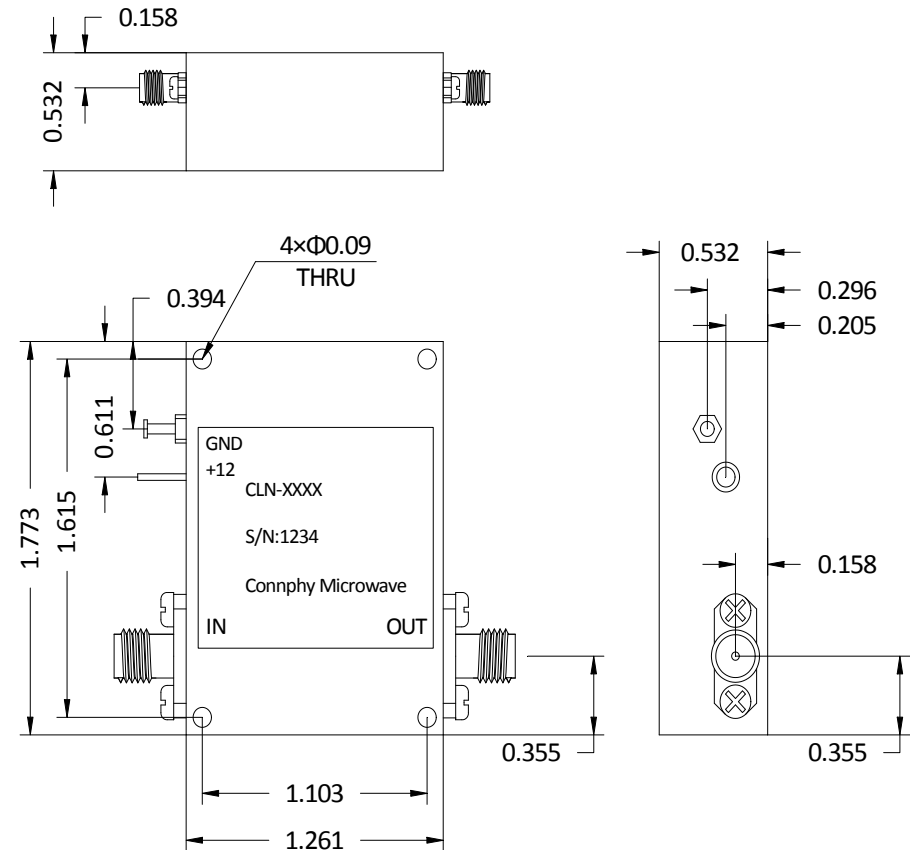
Specifications:


| | |
|--------------------|------------------------|
| Frequency: | 0.1-30.0 GHz |
| Gain: | 35 dB Typ, 33 dB Min |
| Gain Flatness: | ±3.3 dB Max |
| Noise Figure: | 4.5 dB Typ, 5.5 dB Max |
| Output P1dB: | 18 dBm Min |
| Output IP3: | 33 dBm Typ |
| VSWR Input: | 1.7:1 Typ, 2.0:1 Max |
| VSWR Output: | 1.5:1 Typ, 2.0:1 Max |
| DC Voltage: | +12 V Typ |
| DC Supply Current: | 530 mA Typ |
| RF Connector: | 2.92mm female |

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 |

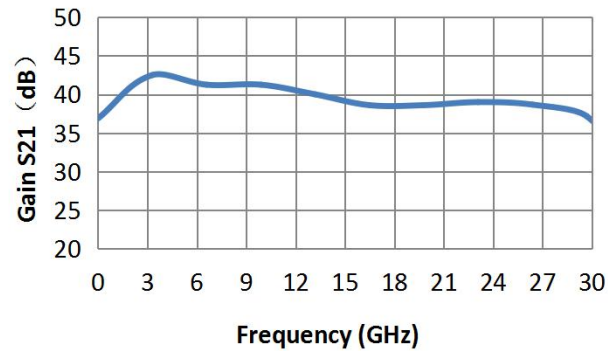
Mechanical Outline(Inches):



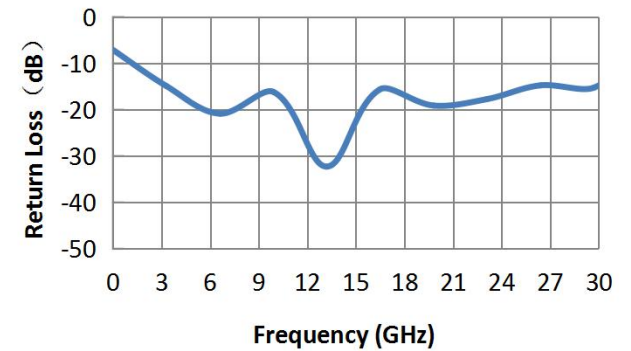
| Low Noise Amplifier CLN-0.1G30G-3545-K | | | |
|---|-------------------|----------------------|---|
| DRAWN: | DWG NO.: | REV CODE: Rev.1.0 |  www.connphy.com sales@connphy.com |
| CHECKRD: | DATE: 14/05/15 | SHEET : 1 OF 2 | |
| ISSUED: | SIZE: A | SCALE : N / A | |
| | | | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE. |

Typical Performance Data:

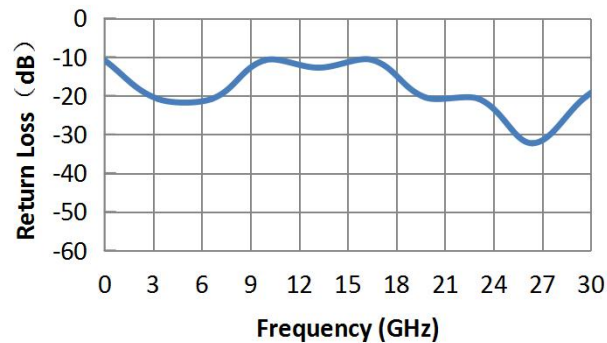
Gain S21



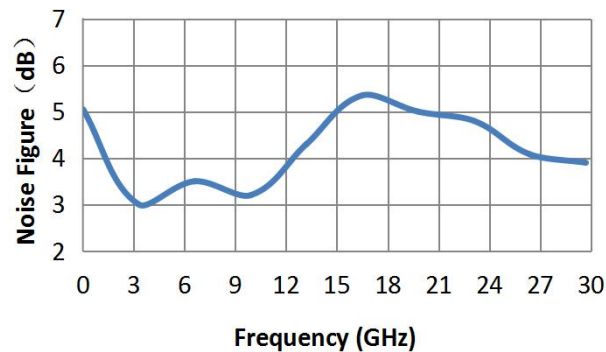
S11



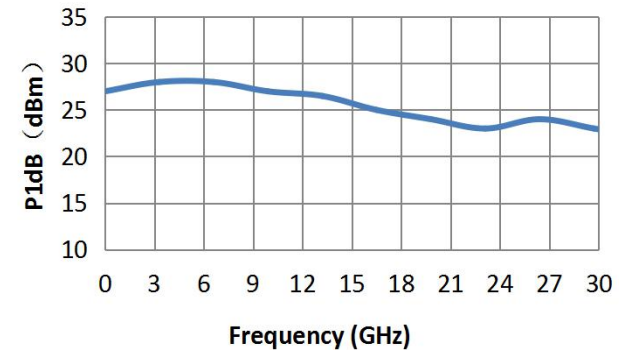
S22



Noise Figure



Output P1dB




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

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 |

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