

CLN-0.1G18G-4045-S is a Low Noise Amplifier providing a gain of 40 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: 0.1-18 GHz
- Gain: 40 dB Min
- Noise Figure: 4.5 dB Max
- Solder filtered pins for DC connection
- Low VSWR, unconditional stable

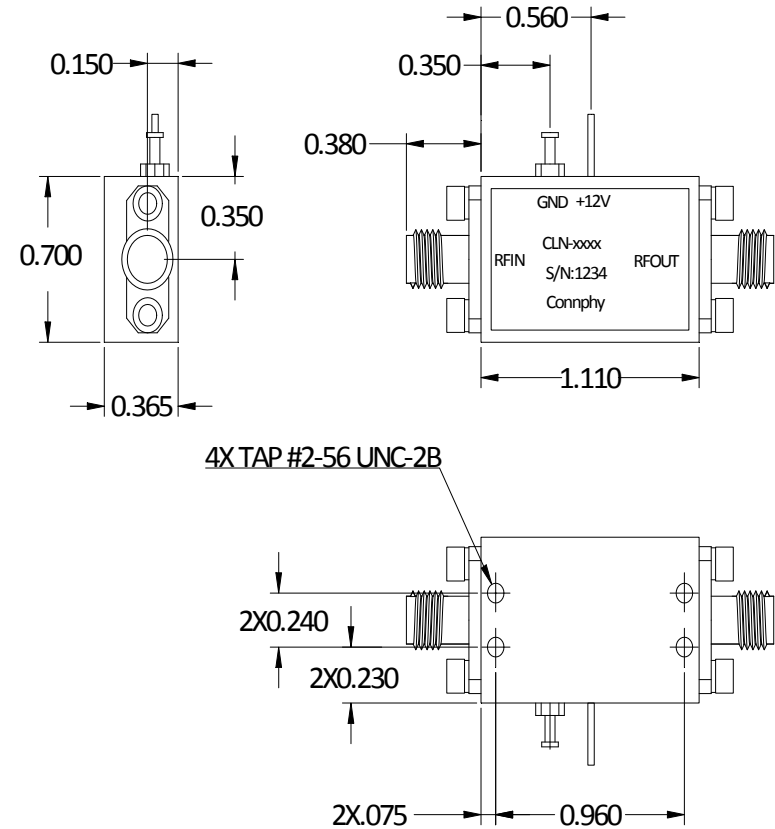
Specifications:


Frequency:	0.1-18.0 GHz
Gain:	40 dB Min
Gain Flatness:	±1.75 dB Max
Noise Figure:	4.5 dB Max
Output P1dB:	15 dBm Min
Output IP3:	25 dBm Typ
VSWR Input:	2.2:1 Max
VSWR Output:	2.2:1 Max
DC Voltage:	+9 V to +12 V
DC Supply Current:	300 mA Typ
RF Connector:	SMA 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

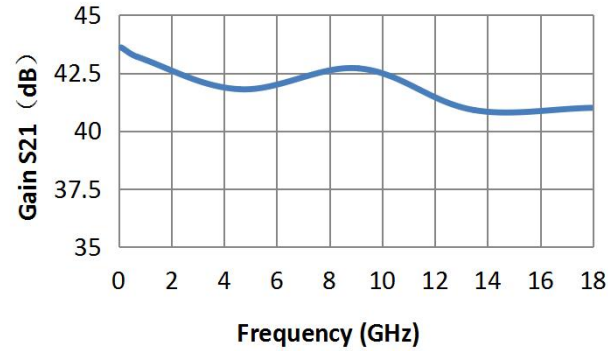
Mechanical Outline(Inches):



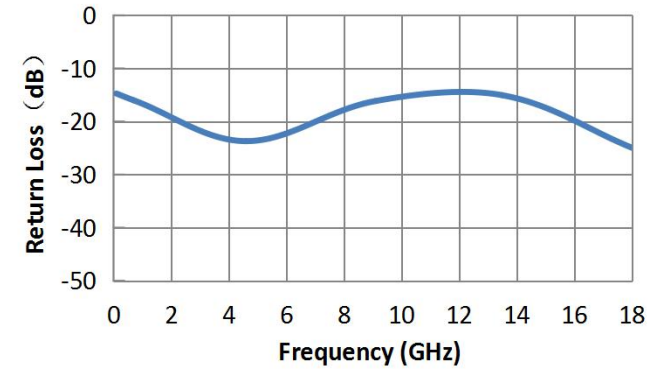
Low Noise Amplifier CLN-0.1G18G-4045-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 14/05/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Typical Performance Data:

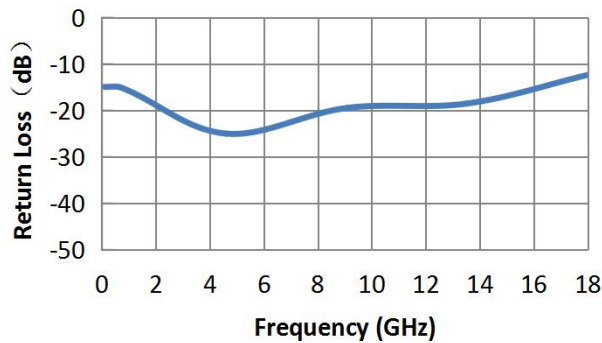
Gain S21



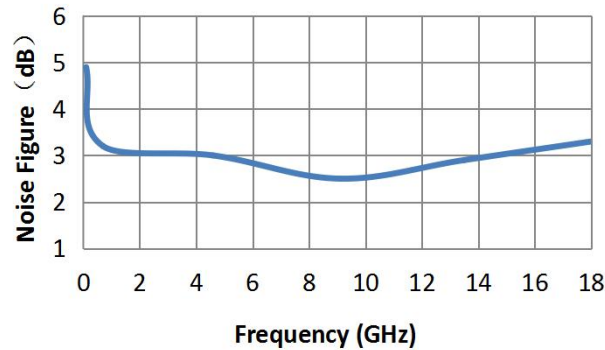
S11



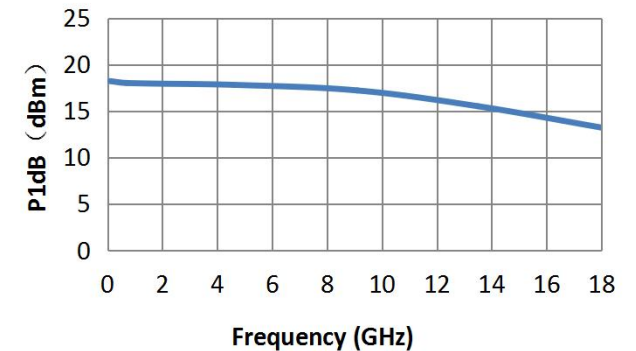
S22



Noise Figure




Output P1dB



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

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

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DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
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