

**CLN-0.1G10G-2820-S** is a Low Noise Amplifier providing a gain of 28 dB with a noise figure of 2.0 dB. The compact size and modularity makes it ideal for a wide range of applications.

**Features:**

- 0.1 to 10.0 GHz Frequency Range
- Maximum N.F. 2.5 dB
- Gain 28 dB Min
- Gain Flatness  $\leq \pm 1.5$  dB
- SMA female connector I/O

**Specifications:**

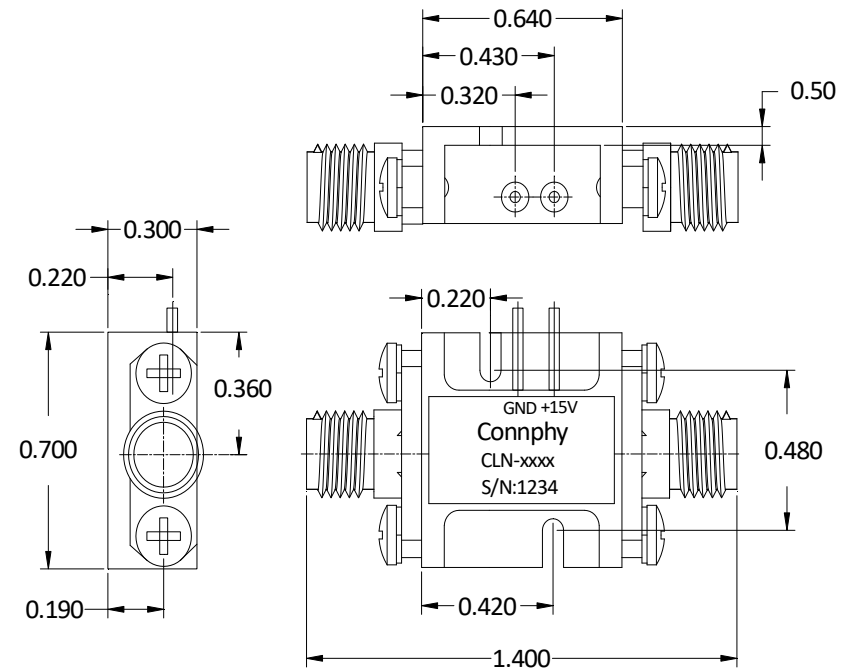
Frequency:	0.1- 10.0 GHz
Gain:	28 dB Min
Gain Flatness:	$\pm 1.5$ dB Max
Noise Figure:	2.0 dB Typ, 2.5 dB Max
Output P1dB:	10 dBm Min
Output IP3:	20 dBm Typ
VSWR Input:	2.2:1 Max
VSWR Output:	2.2:1 Max
DC Voltage:	+12 V to +15 V
DC Supply Current:	125 mA Typ
RF Input Power:	15 dBm Max


NOTE: Noise figures increase below 500 MHz

**Environmental Ratings:**

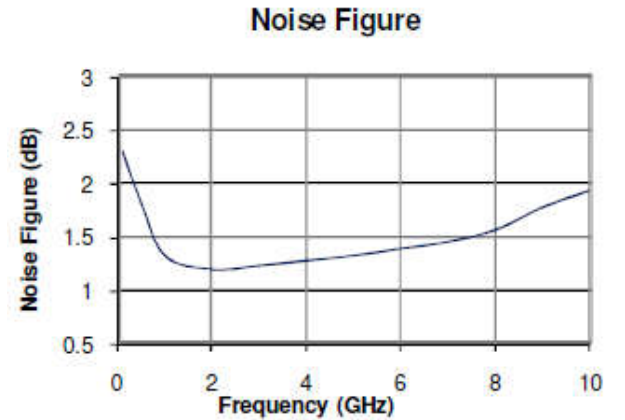
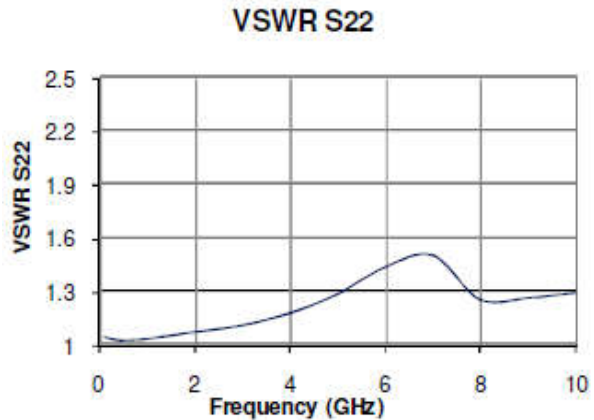
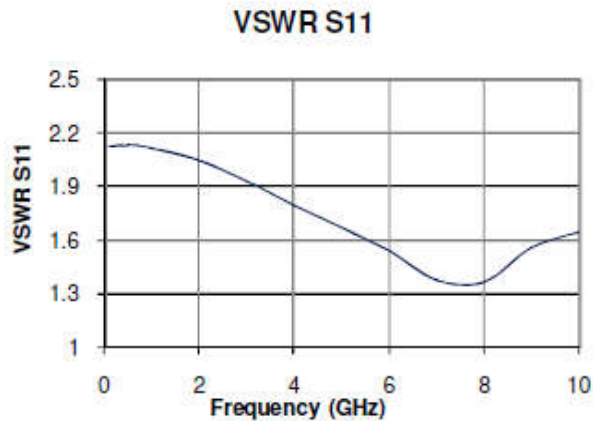
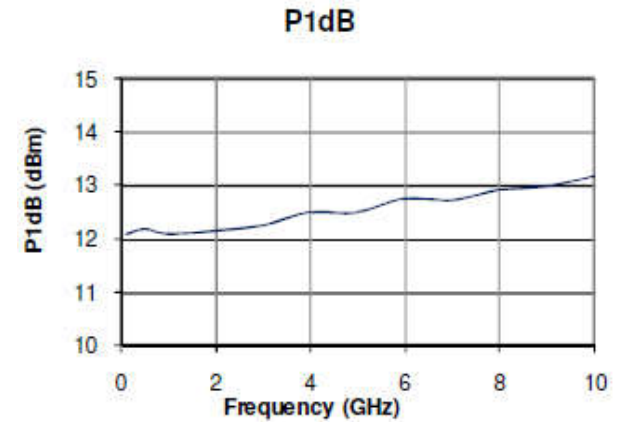
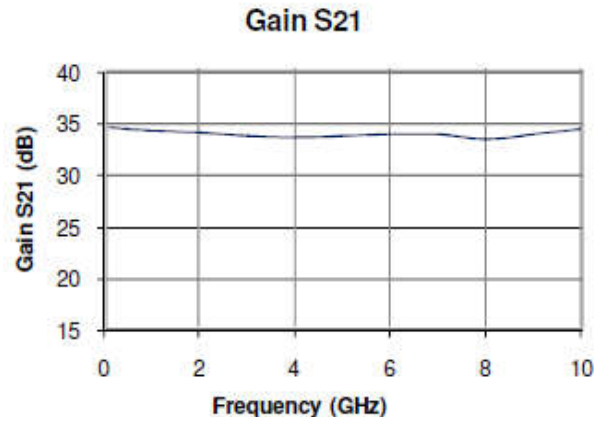
Temperature:	-40°C to +75 °C Operating
	-55 °C to +125 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

**Mechanical Outline(Inches):**



Low Noise Amplifier CLN-0.1G10G-2820-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
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:



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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CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.