

**CLC-1G12G-3220-S** is a Low Noise Amplifier providing a gain of 32 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: 1.0-12.0 GHz
- Gain: 28 dB Min
- Noise Figure: 2.5 dB Max
- Solder filtered pins for DC connection
- Low VSWR, unconditional stable

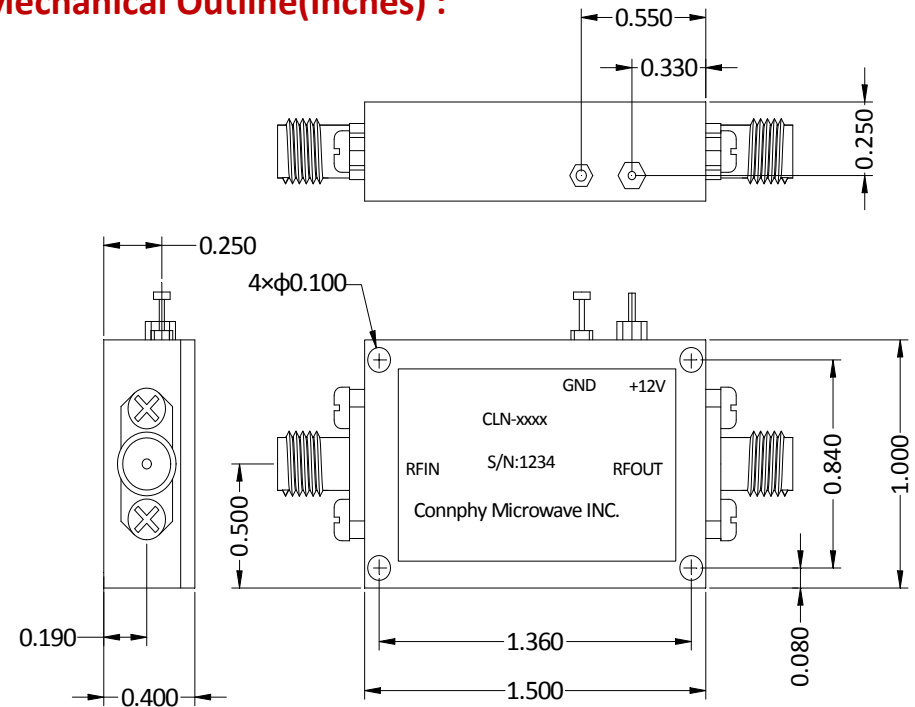
**Specifications:**


Frequency:	1.0 - 12.0 GHz
Gain:	32 dB Typ, 28 dB Min
Gain Flatness:	±2.5 dB Typ, ±3.0 dB Max
Noise Figure:	2.0 dB Typ, 2.5 dB Max
Output P1dB:	12.0 dBm Min
Spurious:	-60 dBc Max
VSWR Input:	2.0:1 Typ, 2.5:1 Max
VSWR Output:	2.0:1 Typ, 2.5:1 Max
DC Voltage:	+8 V to +12 V DC
DC Supply Current:	120 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

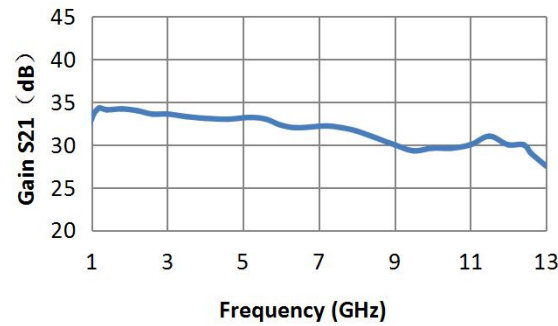
**Mechanical Outline(Inches) :**



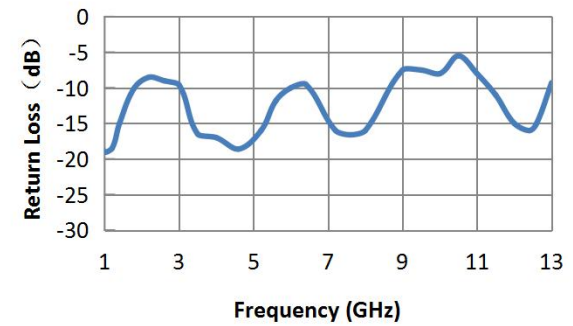
Low Noise Amplifier CLC-1G12G-3220-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
CHECKRD:	DATE: 14/05/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## Typical Performance Data:

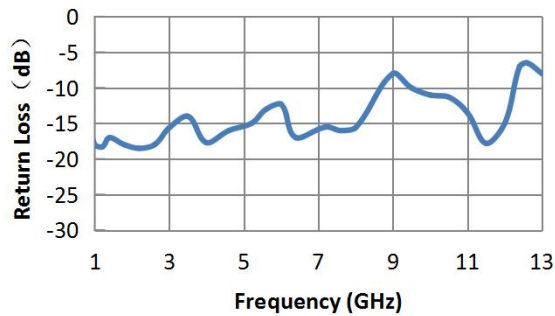
### Gain S21



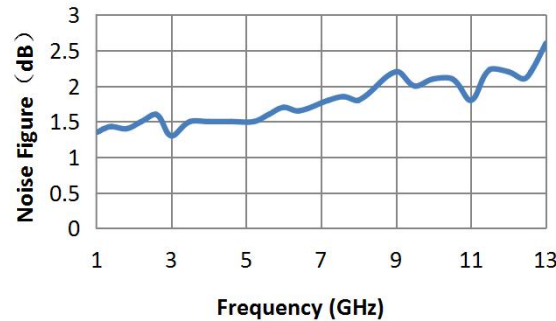
### S11



### S22




### Noise Figure



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

Low Noise Amplifier CLC-1G12G-3220-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 : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.