CLN-0.1G3G-3120-S is a Low Noise Amplifier providing a gain of 31 dB with a noise figure of 2 dB. The compact size and modularity makes it ideal for a wide range of applications.

Features:

• Frequency Range: 0.1-3 GHz

• Gain: 31 dB Min

• Noise Figure: 2.0 dB Max

• Solder filtered pins for DC connection

• Low VSWR, unconditional stable

Specifications:

Frequency: 0.1-3.0 GHz Gain: 31 dB Min + 1.5 dB Max Gain Flatness: Noise Figure: 2.0 dB Max Output P1dB: 21 dBm Min VSWR Input: 2.0:1 Max VSWR Output: 2.0:1 Max DC Voltage: +15 V Typ DC Supply Current: 250 mA Max

Environmental Ratings:

RF Connector:

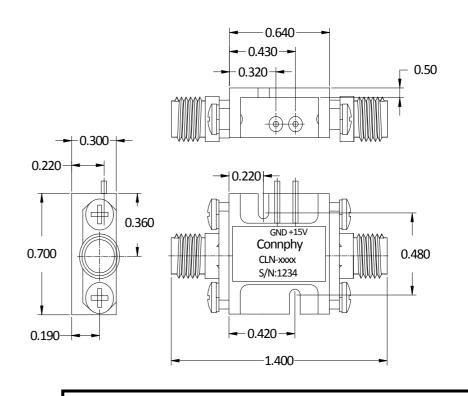
Temperature: -40°C to +75 °C Operating

-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

SMA Female

Mechanical Outline(Inches):



Low Noise Amplifier CLN-0.1G3G-3120-S					
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc.		
CHECKRD:	DATE: 14/05/15	SHEET: 1 OF 2	www.connphy.com sales@connphy.com		
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.		

Typical Performance Data: Gain S21 **S11** 45 0 Return Loss (dB) 40 (**dB**) -10 35 -20 30 Gain S21 -30 25 20 -40 15 -50 0 0.5 1.5 2 2.5 3 0 0.5 1.5 2 Frequency (GHz) Frequency (GHz) **Noise Figure S22 Output P1dB** 2.5 0 30 Noise Figure (dB) Return Loss (dB) 2 25 -10 P1dB (dBm) 20 1.5 -20 15 1 -30 10 0.5 5

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

1.5

Frequency (GHz)

Environmental Ratings:

0.5

-50

0

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

-55 °C to +125 °C Non-Operating

2.5

3

0

0.5

1.5

Frequency (GHz)

2.5

3

Vibration: MIL-STD-202F, Method 204D Cond. B Altitude: MIL-STD-202F, Method 105C Cond. B

MIL-STD-202F, Method 107D Cond. A Temperature Cycle:

Low Noise Amplifier

0.5

0

CLN-0.1G3G-3120-S				
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc.	
CHECKRD:	DATE: 14/05/15	SHEET: 2 OF 2	www.connphy.com sales@connphy.com	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.	

1.5

Frequency (GHz)

2.5

2.5

3

3