

**CLN-0.1G6G-4213-S** is a Low Noise Amplifier providing a gain of 42 dB with a noise figure of 1.3 dB. The compact size and modularity makes it ideal for a wide range of applications.

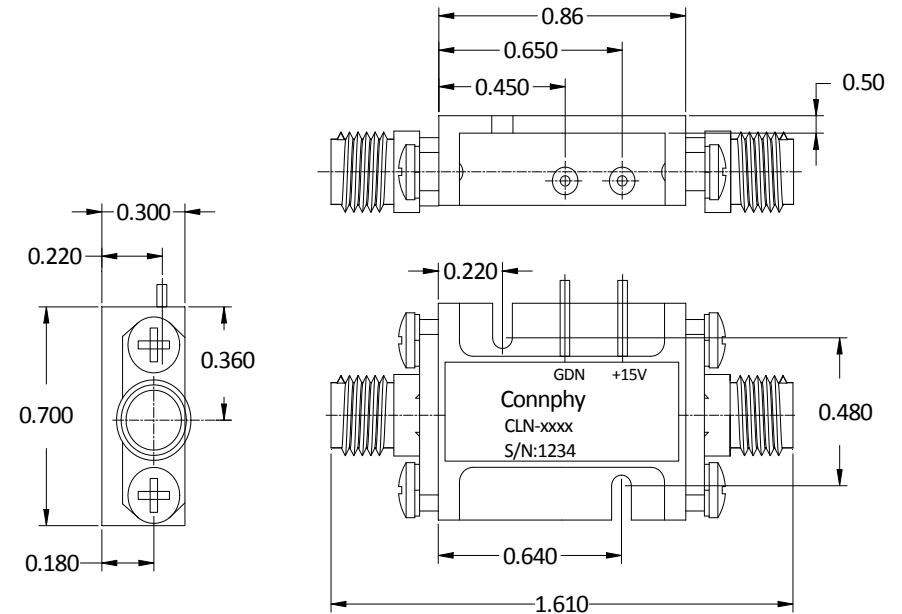
**Features:**

- Frequency Range: 0.1-6.0 GHz
- Gain: 42 dB min.
- Noise Figure: 1.3 dB max.
- Solder filtered pins for DC connection
- Low VSWR, unconditional stable

**Specifications:**


Frequency:	0.1-6.0 GHz
Gain:	42 dB Min
Gain Flatness:	±1.0 dB Max
Noise Figure:	1.3 dB Max
Output P1dB:	10 dBm Min
VSWR Input:	2.0:1 Max
VSWR Output:	2.0:1 Max
DC Voltage:	+15 V Typ
DC Supply Current:	200 mA Typ
RF Connector:	SMA Female

**Mechanical Outline(Inches):**



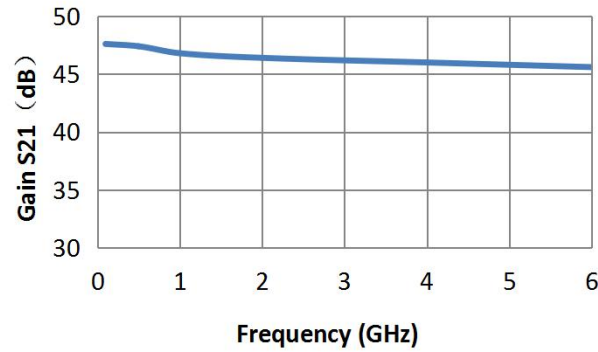
**Environmental Ratings:**

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

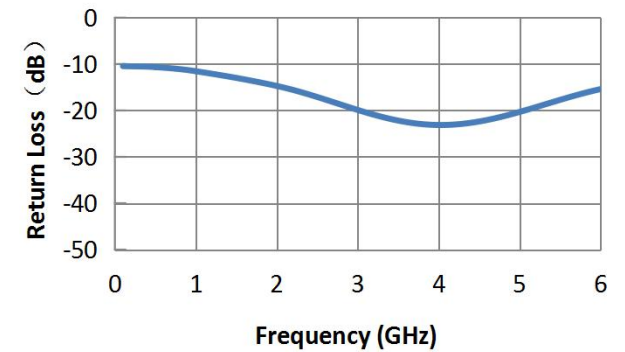
Low Noise Amplifier CLN-0.1G6G-4213-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
CHECKRD:	DATE: 14/05/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## Typical Performance Data:

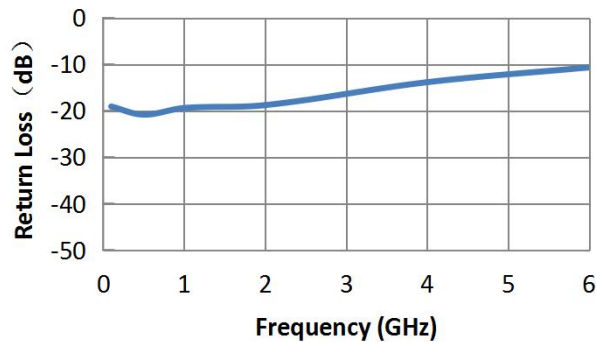
### Gain S21



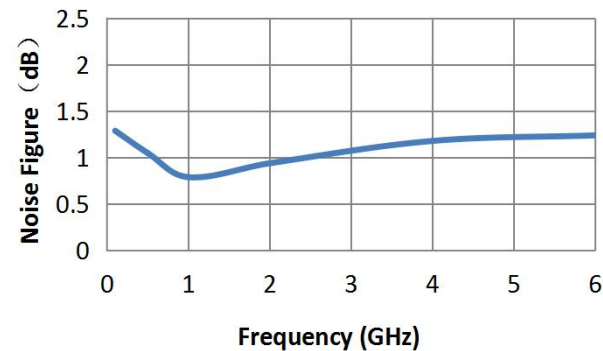
### S11



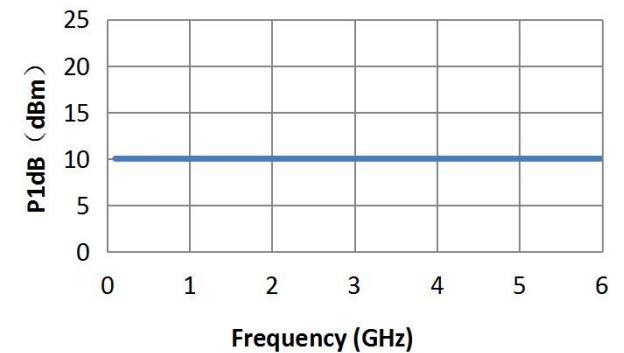
### S22



### Noise Figure



### 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

### Low Noise Amplifier CLN-0.1G6G-4213-S

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

**CONNPHY**  
Microwave Inc.  
[www.connphy.com](http://www.connphy.com)  
[sales@connphy.com](mailto:sales@connphy.com)

Notes: SPEC ARE SUBJECT TO  
CHANGE WITHOUT NOTICE.