

CLC-10M1G-5010-S is a Low Noise Amplifier providing a gain of 50 dB with a noise figure of 1.0 dB. The compact size and modularity makes it ideal for a wide range of applications.

Features:

- Frequency Range: 10 MHz- 1.0 GHz
- Gain: 47 dB min.
- Noise Figure: 1.1 dB max.
- Solder filtered pins for DC connection
- Low VSWR, unconditional stable

Specifications:

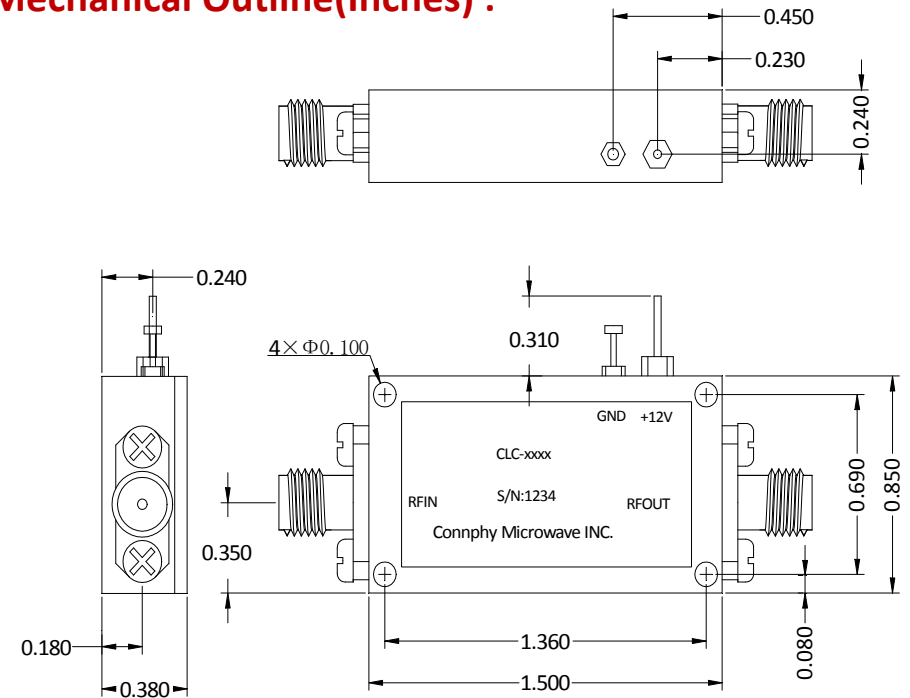
Frequency:	10 MHz- 1.0 GHz
Gain:	50 dB Typ, 47 dB Min
Gain Flatness:	±1.25 dB Typ, ± 1.5 dB Max
Noise Figure:	1.0 dB Typ, 1.1dB Max
Output P1dB:	16 dBm Min
VSWR Input:	1.7:1 Max
VSWR Output:	1.7:1 Max
Spurious:	-65 dBc Max
DC Voltage:	+10 V to +15 V DC
DC Supply Current:	170 mA Typ


NOTE:Noise figures increase below 50 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

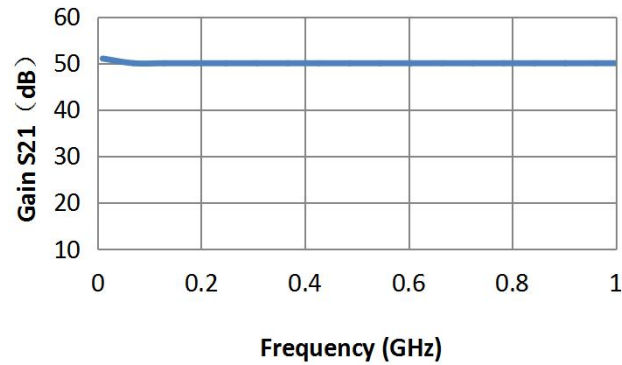
Mechanical Outline(Inches) :



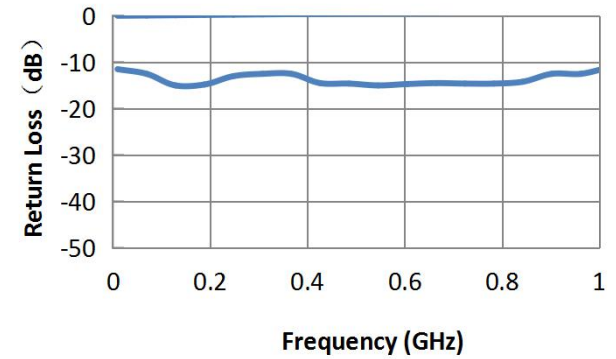
Low Noise Amplifier CLC-10M1G-5010-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 14/05/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Typical Performance Data:

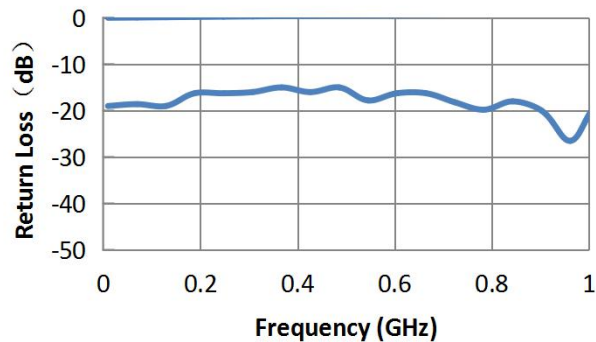
Gain S21



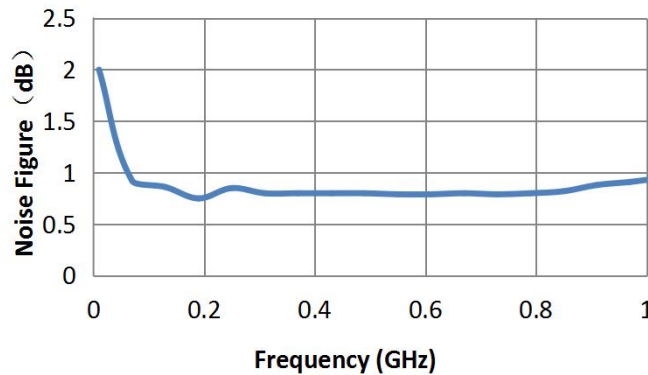
S11



S22




Noise Figure



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	
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