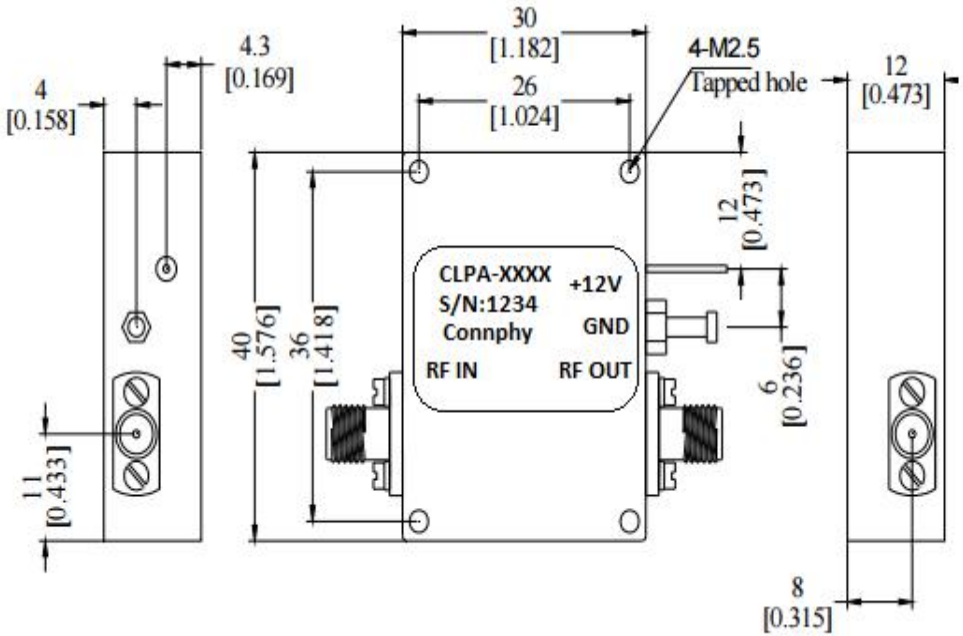
CLPA-1G20G-3550-S is a GaAs HBT Ultra Low Noise Amplifier in a miniature, hermetic module designed to operate between 1 and 20 GHz. This high dynamic range amplifier module provides 35 dB of gain, 5.0 dB noise figure and up to 15 dBm of output power with a single supply of +12V.

Features:

- Ultra Low Phase Noise: -150 dBc/Hz @ 1 kHz
- Gain: 35 dB
- Noise Figure: 5.0 dB

Mechanical Outline(Inches/mm) :



Specifications:

Frequency Range:	1.0-20.0 GHz
Gain:	33 dB Typ, 28 dB Min
Gain Flatness:	+/-2.5 dB Typ
Noise Figure:	10 dB Typ@1.0-2.0GHz
	5.0 dB Typ @2.0-18.0GHz
	9.0 dB Typ@18.0-20.0GHz
P1dB:	10 dBm Typ
Input VSWR:	1.50 Typ, 2.0 Max
Output VSWR:	1.50 Typ, 2.0 Max
Psat:	22 dBm Typ
IP3:	34 dBm Typ
Phase Noise @ 1 kHz:	-150 dBc Typ
Single Supply Voltage:	+12V @ 190mA
RF Connectors:	SMA Female

Environmental Ratings:

Temperature:	-25°C to +71 °C Operating
	-65 °C to +100 °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 PHASE NOISE AMPLIFIER
CLPA-6G12G-1145-S

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc. www.connphy.com sales@connphy.com
CHECKRD:	DATE: 08/07/15	SHEET : 1 OF 1	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.