

CHP-0.7G4G-4440-S is a solid-state design utilizing GaN power transistor technology. The amplifier will support continuous, modulated or pulsed input signals, and is designed to operate in 100% duty cycles. Protection circuits are incorporated to ensure long-term reliability.

Features:

- Solid State Linear GaN design
- Over temperature protection
- Reverse polarity protection
- Control line for remote operation

Electrical Specifications:

Frequency:	0.7-4.0 GHz
Power Gain:	44 dB Min
Gain Flatness:	±2.5 dB Max
Power Output:	+40.5 dBm Min
Harmonics:	-18 dBc Typ
Non Harmonics Spurious:	-80 dBc Min
Input Power:	+15 dBm Max
Input Return Loss:	10 dB Min
Output Return Loss:	10 dB Typ
DC Voltage:	+28 V Typ
DC Supply Current:	2.5 A Typ
Switching Time:	10uS Max
Over Temp Protection:	OFF @ 70C case temp, Autoreset @ 60C

Environmental Ratings:


Temperature:	-10°C to +70 °C Operating -40 °C to +90 °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 Specifications:

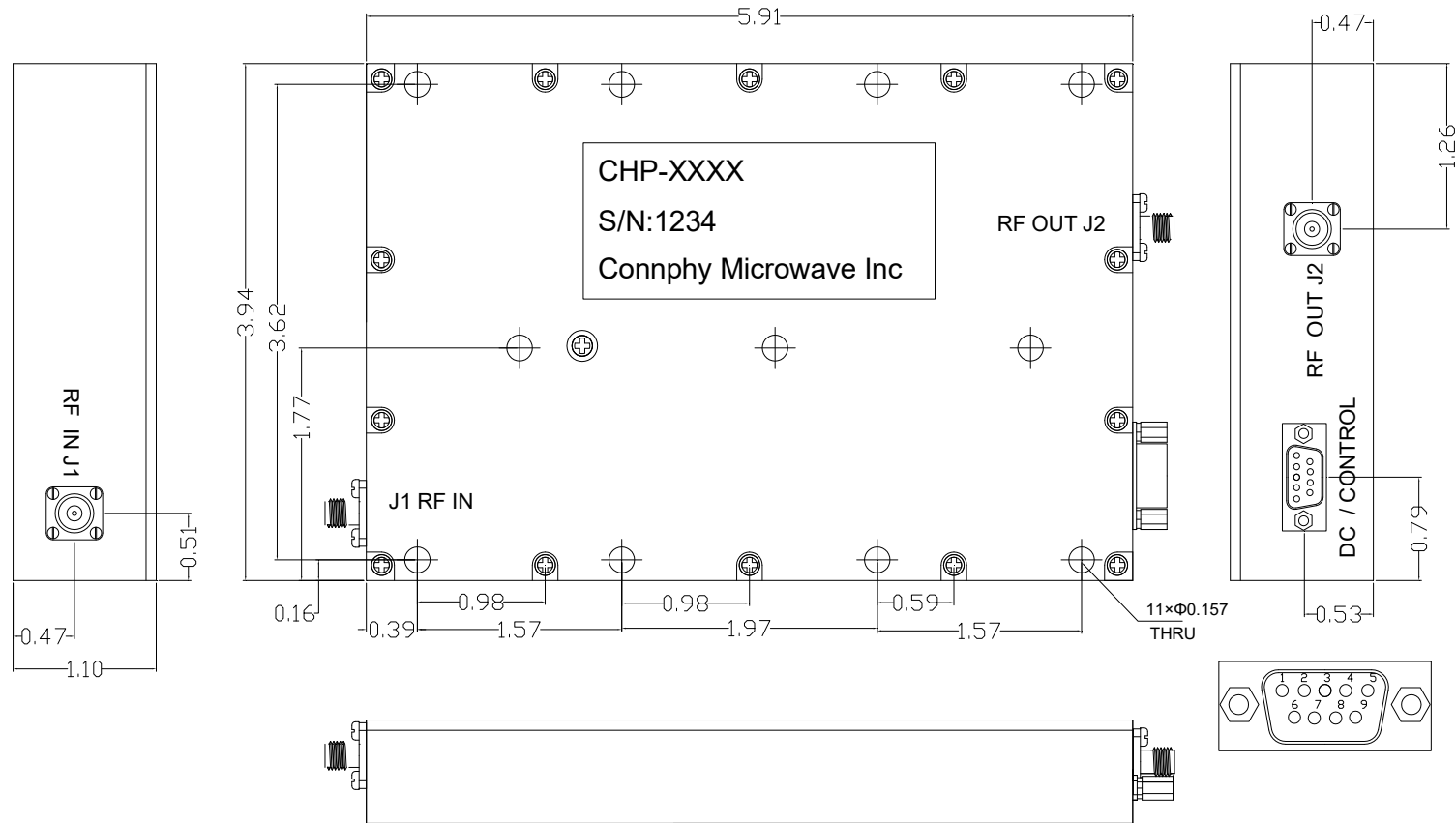
Parameter	Specification
Dimensions WxHxD	5.91 × 3.94 × 1.10Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

DC Connector PIN Assignment:

Pin	Description	Specification
1-4	NC	
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+V	+28V
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER CHP-0.7G4G-4440-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.			

Mechanical Outline (Inches):




Environmental Ratings:

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SOLID STATE HIGH POWER AMPLIFIER

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ISSUED:	SIZE: A	SCALE : N / A	
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