

**CHP-4G6G-5547-S** is a solid-state design utilising 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:	4.0-6.0 GHz
Power Gain:	55 dB Typ, 50 dB Min
Gain Flatness:	±1.5 dB Max
Power Output:	+47 dBm Min
Output P1dB:	+43.5 dBm Typ
Harmonics:	-30dBc 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:	7.5 A Typ
Mute Rise & Fall Time:	2uS max

**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:**

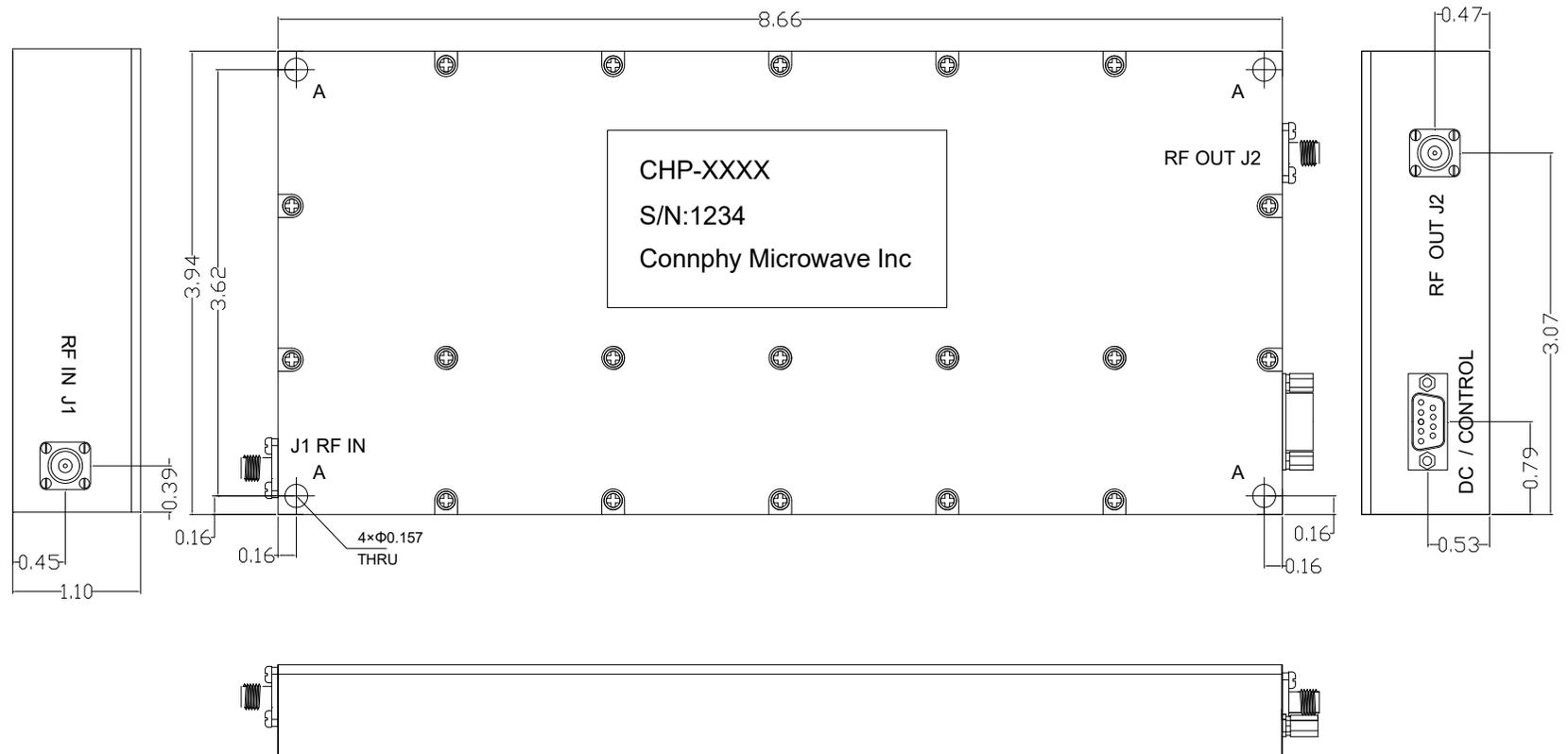
Parameter	Specification
Dimensions WxHxD	8.66 × 3.96 ×1.10Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

**DC Connector PIN Assignment:**

Pin	Description	Specification
1	Status Monitor	TTL "high" = RF O/P >5w nom
2	Current Monitor	100mA/50mV nom
3	Temp Monitor	10mV/C +500mV @ 50C
4	Reverse Powe	TTL "High" = Alarm
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+28	+28V
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER			
CHP-4G6G-5547-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:

Temperature:	-10°C to +70 °C Operating -40 °C to +90 °C Non-Operating
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## SOLID STATE HIGH POWER AMPLIFIER

### CHP-4G6G-5547-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 : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.