

CHP-1G6G-5046-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: 1.0-6.0 GHz
- Power Gain: 50 dB Min
- Gain Flatness: ±2.0 dB Typ
- Power Output: +46 dBm Typ, 45 dBm Min
- Harmonics: -15 dBc Typ
- Non Harmonics Spurious: -70 dBc Min
- Input Power: +15 dBm Max
- Input Return Loss: 10 dB Min
- Output Return Loss: 10 dB Min
- DC Voltage: 28 V Typ
- DC Supply Current: 7 A Typ, 8.5 A Max
- Switching Time: 2uS 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:

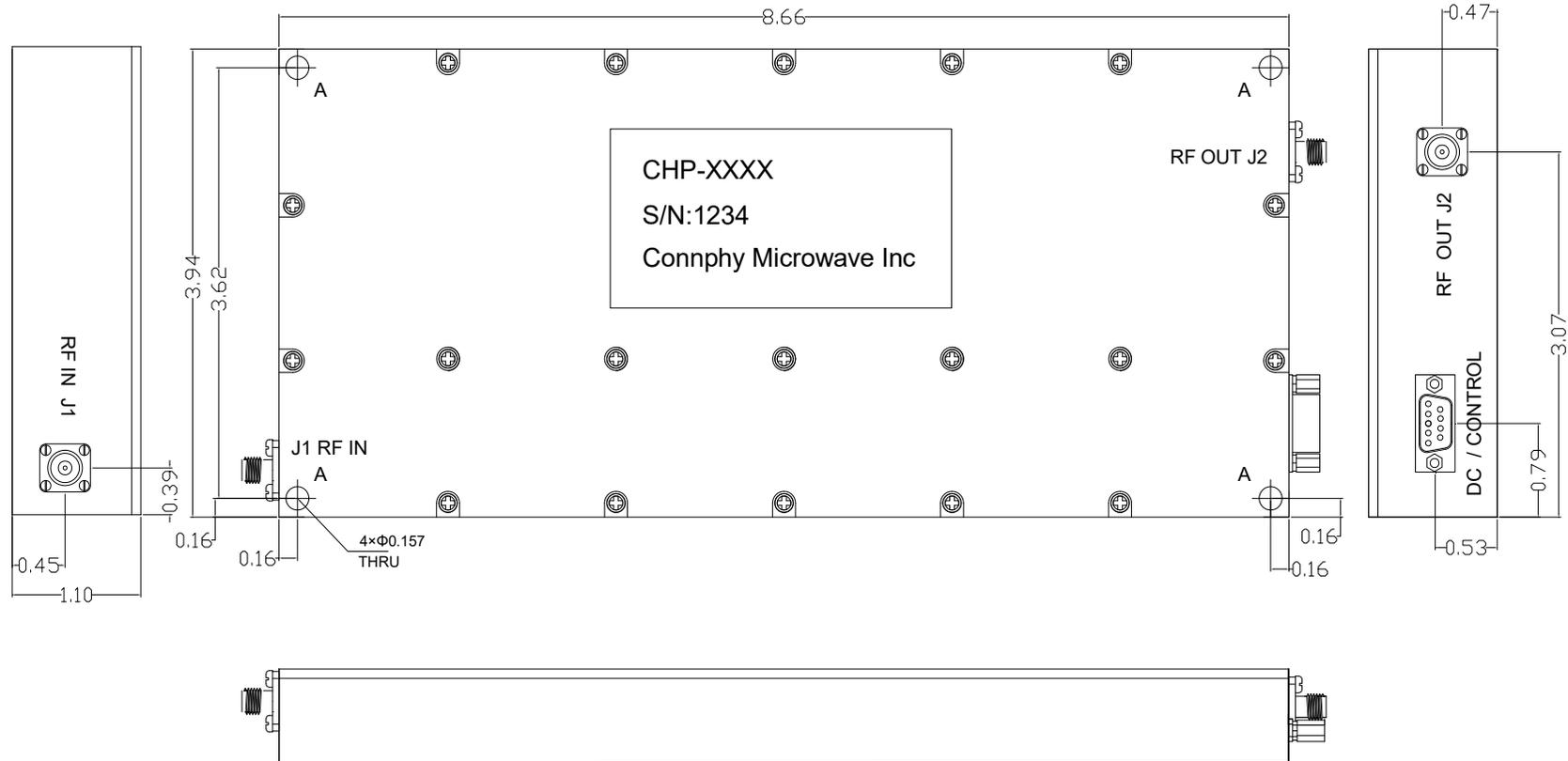
Parameter	Specification
Dimensions WxHxD	8.66 × 3.96 × 1.10Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

DC Connector PIN Assignment:

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

SOLID STATE HIGH POWER AMPLIFIER			
CHP-1G6G-5046-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
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

SOLID STATE HIGH POWER AMPLIFIER

CHP-1G6G-5046-S

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.