

**CHP-2G6G-5346-S** a complete solid state microwave power amplifier module that features high efficiency, high output power and wide dynamic range. It is based on advanced microwave device technology and provides long-term reliability and high ruggedness.

**Features:**

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

**Electrical Specifications:**

- Frequency: 2.0-6.0 GHz
- Power Gain: 53 dB Typ ,48 dB Min
- Gain Flatness: ±2.0 dB Max
- Power Output: +46 dBm Typ, +45 dBm Min
- Harmonics: -25 dBc Min
- 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: 6 A Typ, 7.5A Max
- Switching Time: 10uS Typ
- 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:**

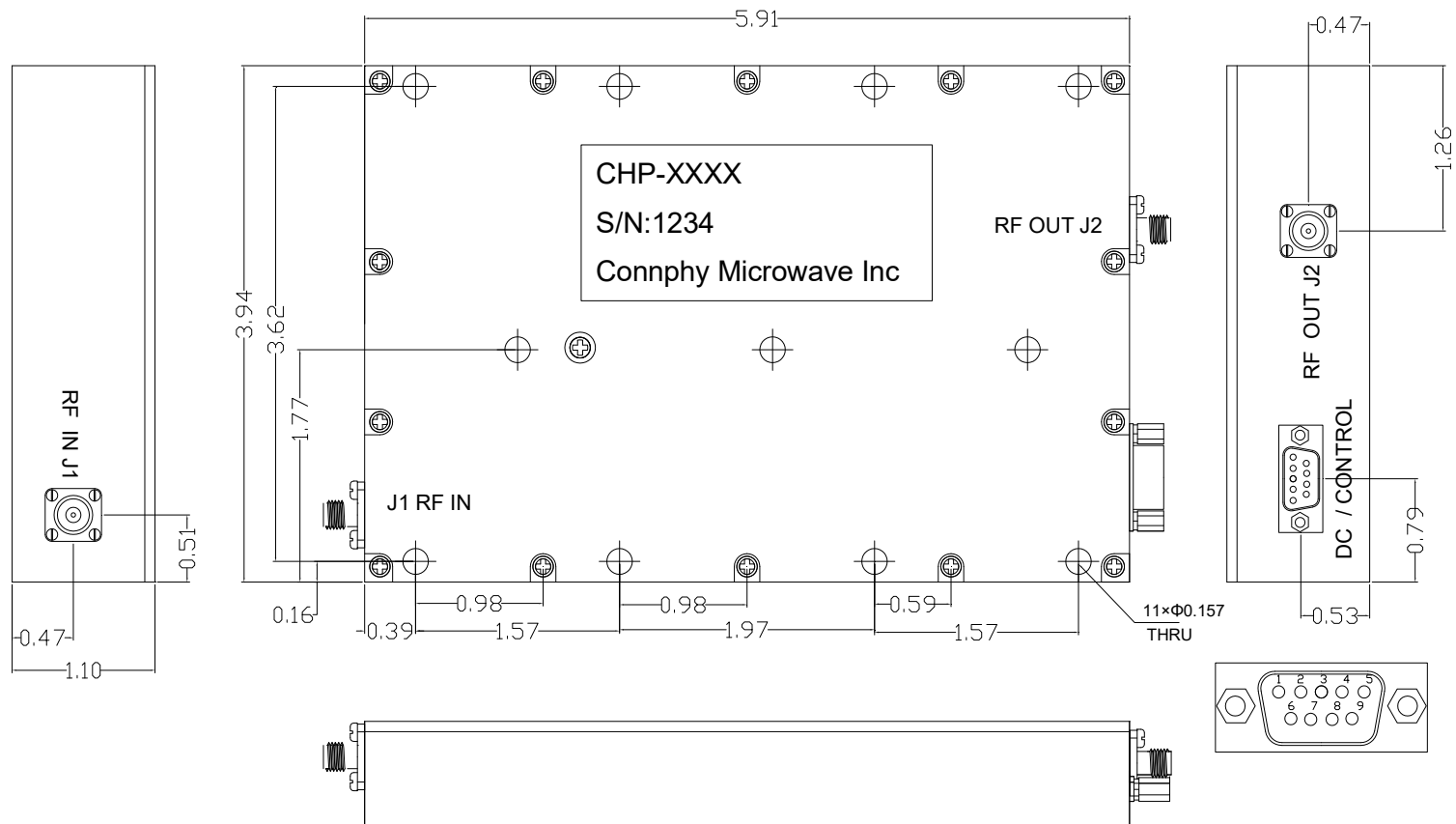
Parameter	Specification
Dimensions WxHxD	5.91 × 3.94 × 1.10Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

**aDC 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-2G6G-5346-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 : 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
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## SOLID STATE HIGH POWER AMPLIFIER

### CHP-2G6G-5346-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.