

**CHP-2G6G-5550-S** is 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:**

- 2.0-6.0 GHz ultra-broadband
- Psat: 100W Min
- High efficiency, High reliability and ruggedness
- Built-in protection circuits

**Electrical Specifications:**

- Frequency: 2.0-6.0 GHz
- Power Gain: 55 dB Min
- Gain Flatness: ±2.0 dB Max
- Power Output: +49.5 dBm Min
- Harmonics: -15 dBc Min
- 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: 17 A Typ

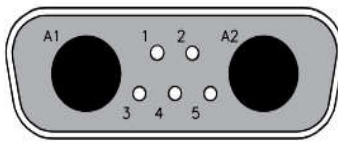
**Environmental Ratings:**


- Temperature: -20°C to +65 °C Operating  
-40 °C to +70 °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:**

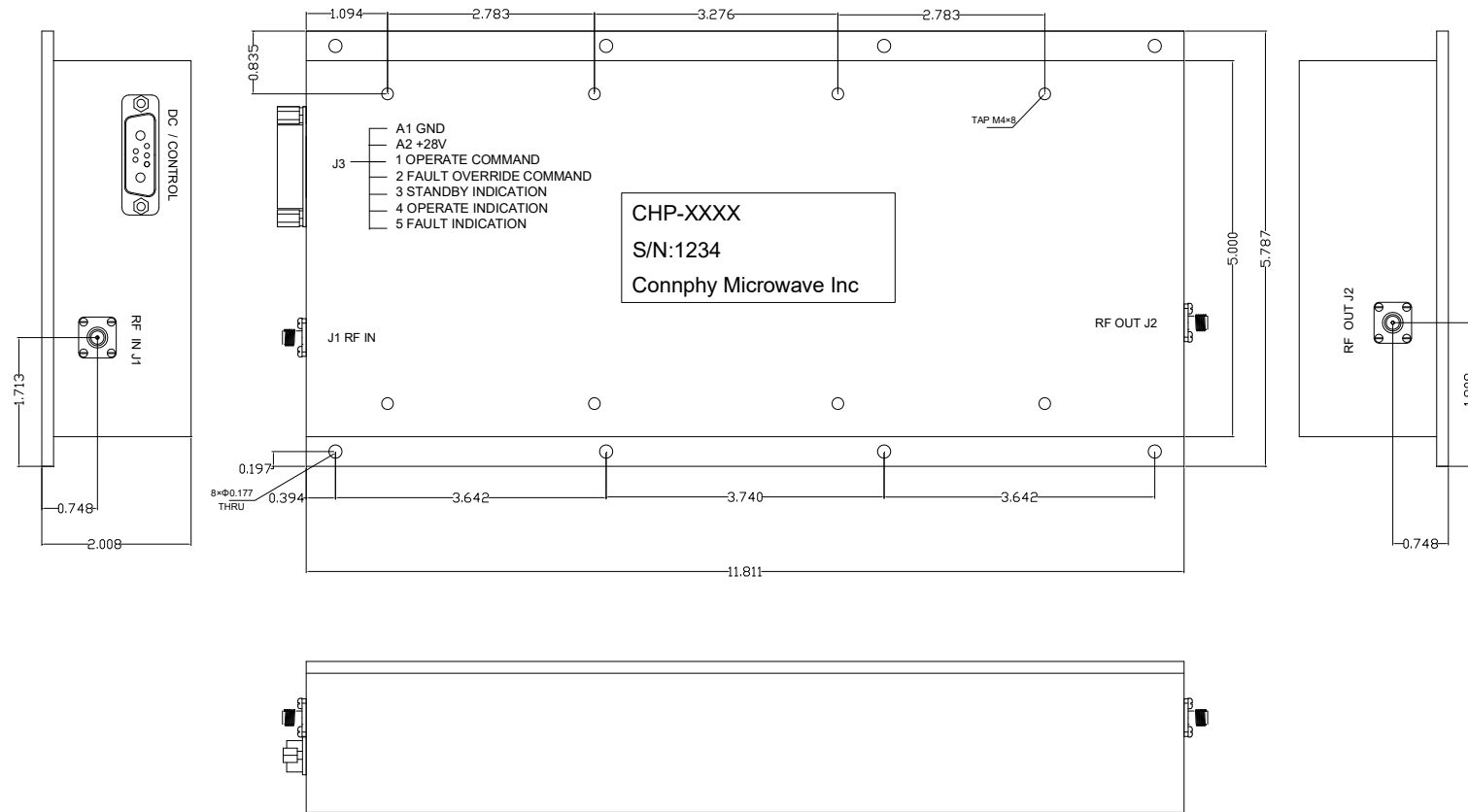
Parameter	Specification
Dimensions WxHxD	11.811× 5.787 × 2.008 Inches
RF Connectors In/Out	SMA/TNC-F
DC Connector	7W2 D-SUB
Cooling	External Heatsink

**DC Connector PIN Assignment:**

Pin	Function	Pin Definition
A1	GND	
A2	+28V	
1	Operate Command	
2	Fault Override Command	
3	Standby Indiction	
4	Operate Indication	
5	Fault Indication	

SOLID STATE HIGH POWER AMPLIFIER			
CHP-2G6G-5550-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:	-20°C to +65 °C Operating -40 °C to +70 °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-2G6G-5550-S

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CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.