

**CHP-20M2.5G-3737-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:**

- 20 MHz-2500 MHz ultra-broadband
- Psat: 37 dBm Min
- High efficiency, High reliability and ruggedness
- Built-in protection circuits
- Class AB GaN linear design

**Electrical Specifications:**

- Frequency: 0.02-2500 MHz
- Power Gain: 37 dB Min
- Gain Flatness: ±2.0 dB Max
- Power Output: +37 dBm Min
- Harmonics: -20 dBc Typ
- Non Harmonics Spurious: -60 dBc Typ
- Input Power: +8 dBm Max
- Input Return Loss: 10 dB Min
- Output Return Loss: 10 dB Min
- DC Voltage: +28 to +30 V
- DC Supply Current: 1.25 A Max

**Environmental Ratings:**

- Temperature: -20°C to +75 °C Operating  
-40 °C to +85 °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:**

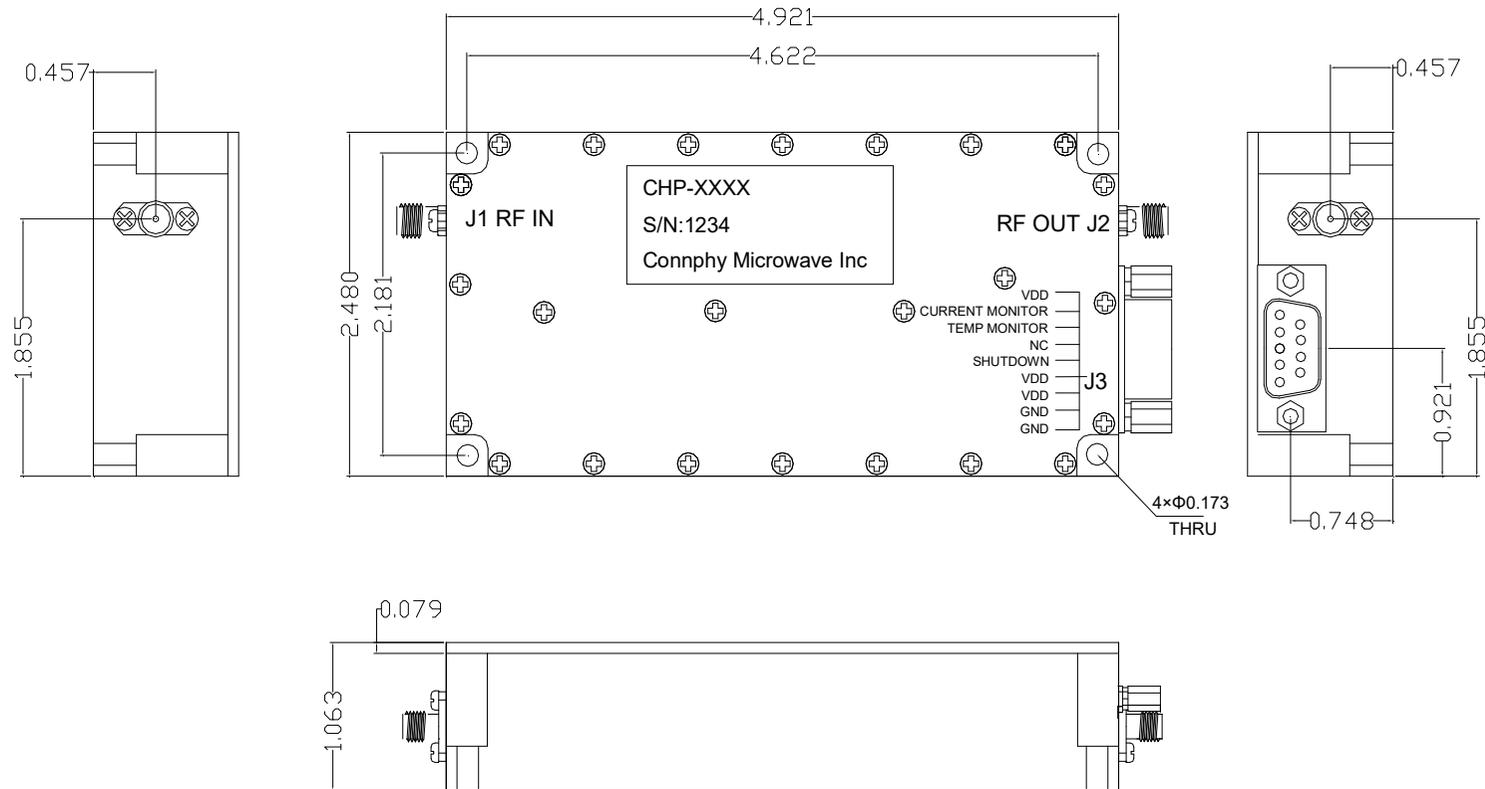
Parameter	Specification
Dimensions WxHxD	4.921 X 2.480 X 1.063 Inches
RF Connectors In/Out	SMA-F
DC Connector	9-Pin D-Sub
Cooling	External Heatsink

**DC Connector PIN Assignment:**

Pin	Description	Specification
1	NC	NC
2	NC	NC
3	Current Monitor	100mV/100mA Typ
4	Temp Monitor	10mV/C +500mV @ 50C
5	Remote Control	TTL
6,7	+28	+28V
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER CHP-20M2.5G-3737-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:	-20°C to +75 °C Operating -40 °C to +85 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
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### SOLID STATE HIGH POWER AMPLIFIER

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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.