

**CHP-0.5G6G-4040-S** is a complete solid state microwave power amplifier module that features high efficiency, high output power and wide dynamic

**Features:**

- 0.5-6.0 GHz ultra-broadband
- Class AB linear GaN design
- High efficiency, High reliability and ruggedness
- Good linearity, Low distortion

**Electrical Specifications:**

Frequency:	0.5-6.0 GHz
Power Gain:	40 dB Min
Gain Flatness:	±1.5 dB Max
Power Output:	+40 dBm Min
Harmonics:	-15 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:	3 A Typ

**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	6.16 X 2.72X 0.98Inches
RF Connectors In/Out	SMA-F
DC Connector	9-Pin D-Sub
Cooling	External Heatsink

**DC Connector PIN Assignment:**

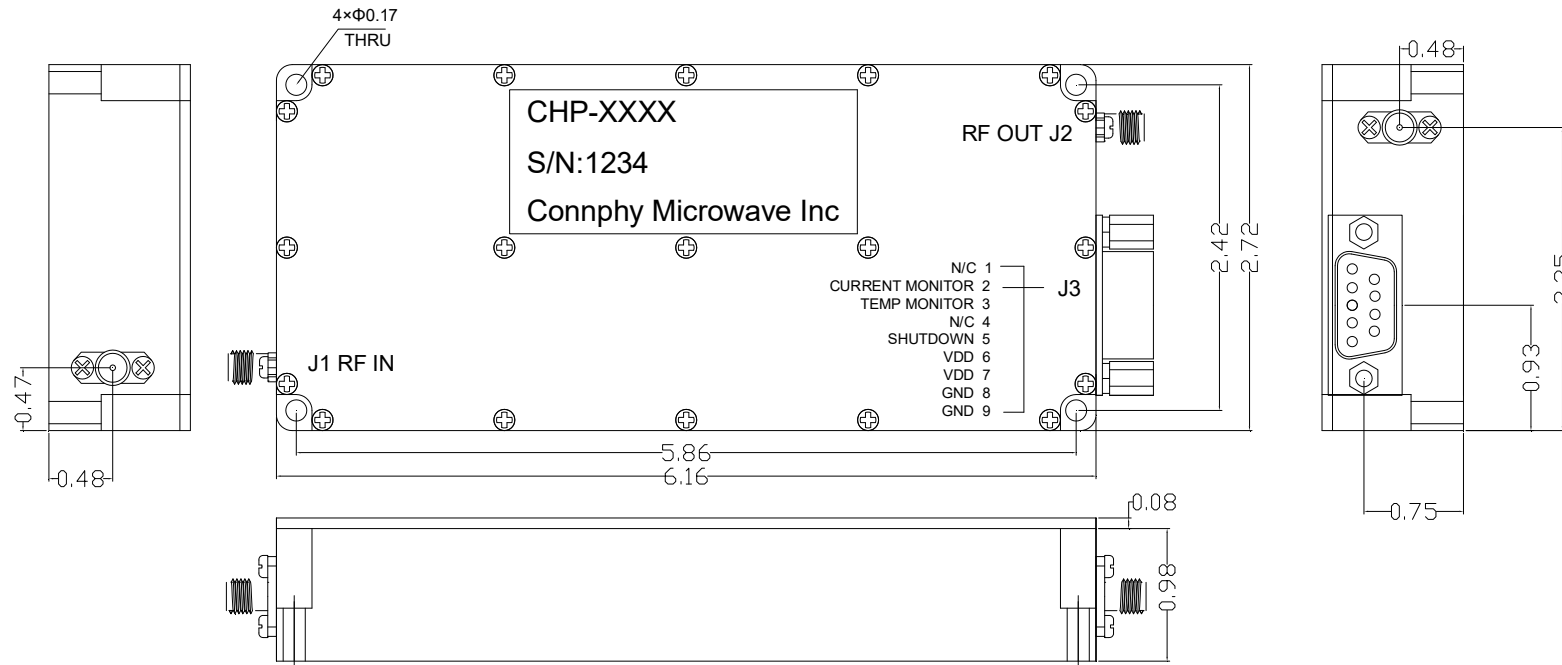
Pin	Description	Specification
1	NC	
2	NC	
3	Current Monitor	20mV/100mA nom
4	Temp Monitor	10mV/C +500mV @ 50C
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+V	+28V DC
8,9	GND	GND

**SOLID STATE HIGH POWER AMPLIFIER**

**CHP-0.5G6G-4040-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:

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CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
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