

CHP-1G6G-4747-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:

- 1.0-6.0 GHz ultra-broadband
- Class AB linear GaN design
- High efficiency, High reliability and ruggedness
- Good linearity, Low distortion

Electrical Specifications:

Frequency:	1.0-6.0 GHz
Power Gain:	47 dB Min
Gain Flatness:	±1.5 dB Max
Power Output:	+47 dBm Min
Output P1dB:	+44 dBm Typ
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:	10 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:

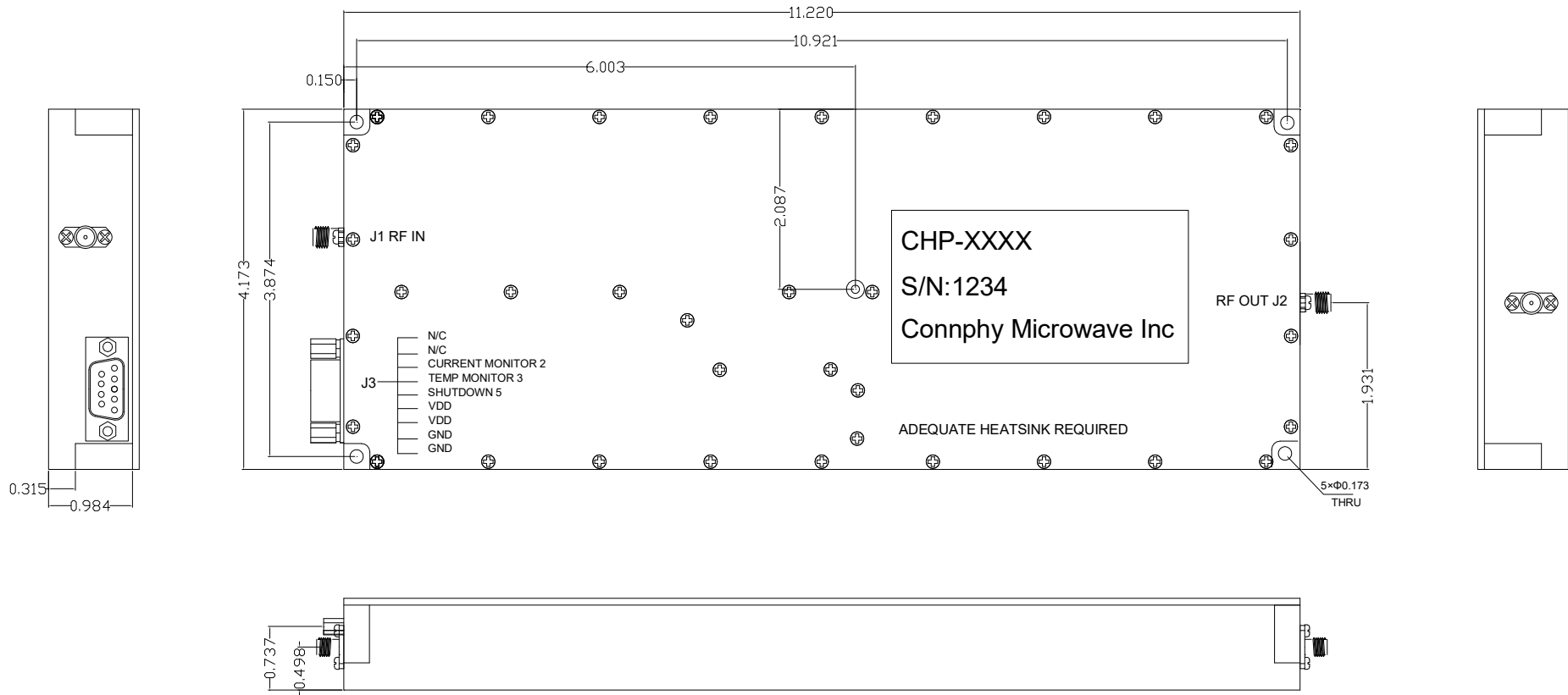
Parameter	Specification
Dimensions WxHxD	11.220 x 4.173 x 0.984 Inches
RF Connectors In/Out	SMA-F
DC Connector	9-Pin D-Sub
Cooling	External Heatsink

DC Connector PIN Assignment:

Pin	Description	Specification
1	NC	NC
2	NC	NC
3	Current Monitor	20mV/100mA nom
4	Temp Monitor	10mV/C +500mV @ 50C
5	Remote Control	TL - Optional 5µS switching speed
6,7	+V	+28V DC
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER			
CHP-1G6G-4747-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
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SOLID STATE HIGH POWER AMPLIFIER

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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.