CHP-0.5G2.5G-4848-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:

- 0.5-2.5 GHz ultra-broadband
- Psat: 50W Min
- High efficiency, High reliability and ruggedness
- Built-in protection circuits

Electrical Specifications:

Frequency:	0.5-2.5 GHz
Power Gain:	48 dB Min
Gain Flatness:	±1.5 dB Max
Power Output:	+48 dBm Min
Harmonics:	-15 dBc Min
Non Harmonics Spurious:	-80 dBc Min
Input Power:	+15 dBm Max
Input Return Loss:	14 dB Min
Output Return Loss:	10 dB Min
DC Voltage:	28 V Typ
DC Supply Current:	6 A Typ
Switching Time:	2uS max
Over Temp Protection:	OFF @ 70C case temp, Autoreset @ 60C

Environmental Ratings:

Temperature:	-20ºC to +65 ºC Operating
	-40 ºC to +70 ºC 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	8.66 × 3.96 ×1.10Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

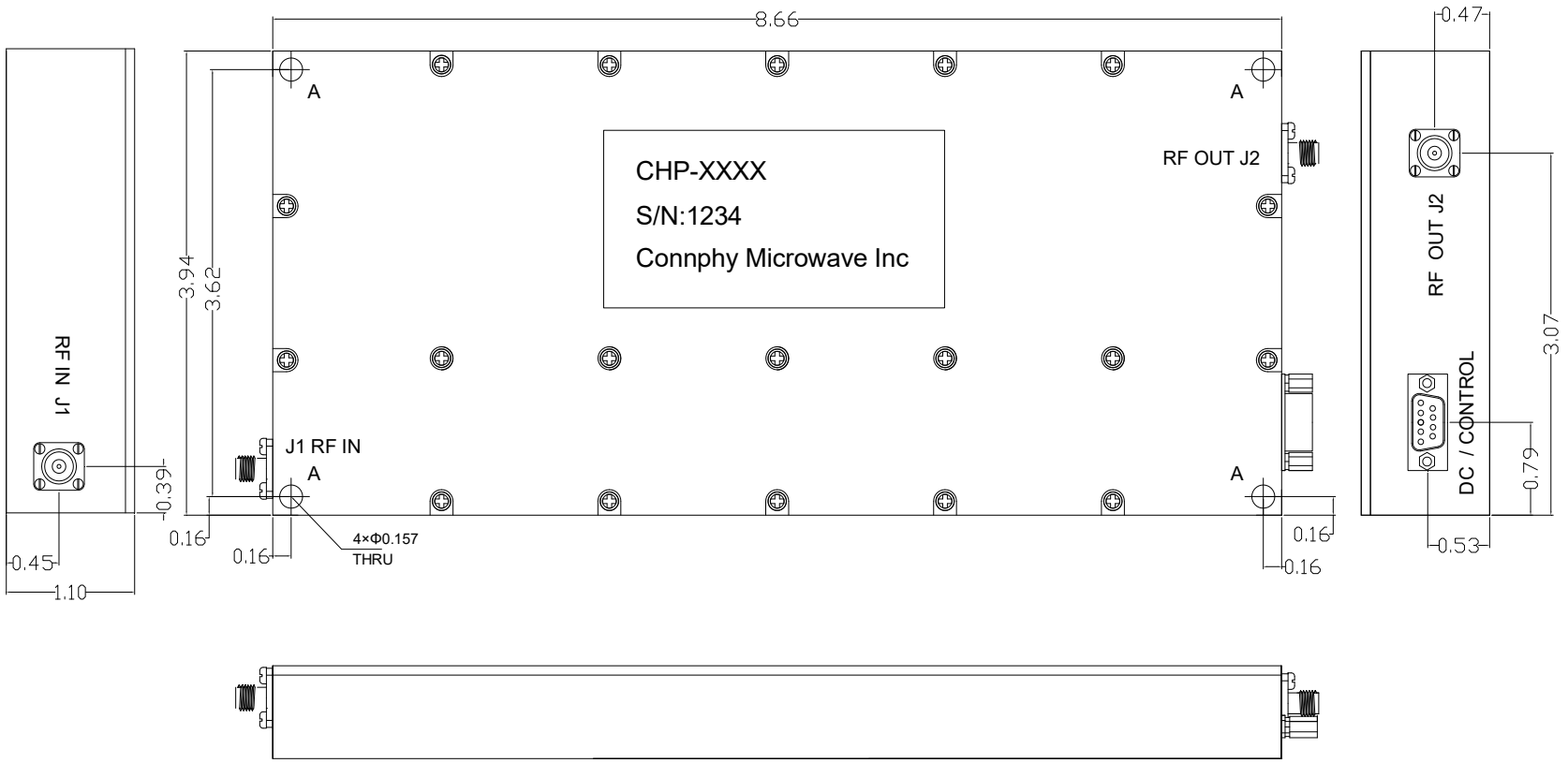
DC Connector PIN Assignment:

Pin	Description	Specification
1	Status Monitor	TTL “high” = RF O/P >5w nom
2	Current Monitor	50mV/100mA nom
3	Temp Monitor	10mV/C +500mV @ 50C
4	NC	
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+V	+28V
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER
CHP-0.5G2.5G-4848-S

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc. 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):



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