CHP-0.5G2.5G-4647-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:

- Solid-state Class AB design
- Psat:50W Min
- Built-in Protection, Control & Monitoring Circuits
- High reliability, ruggedness, and High Efficiency

Electrical Specifications:

Frequency:	500-2500 MHz
Power Gain:	46 dB Min
Gain Flatness:	±1.5 dB Max
Output Psat:	+47 dBm Min
Output P1dB:	+43 dBm Typ
Harmonics:	-20dBc Typ
Non Harmonics Spurious:	-70 dBc Typ
Input Power:	+10 dBm Max
Input Return Loss:	10 dB Min
Output Return Loss:	10 dB Typ
DC Voltage:	+26 to +30 V Typ
DC Supply Current:	6.0 A Max
Switching Time:	2 uSec Typ

Environmental Ratings:

Temperature:	-40ºC to +80 ºC Operating
	-40 ºC to +85 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	7.402 x 3.598 x 1.060 Inch
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink(Not Supplied)

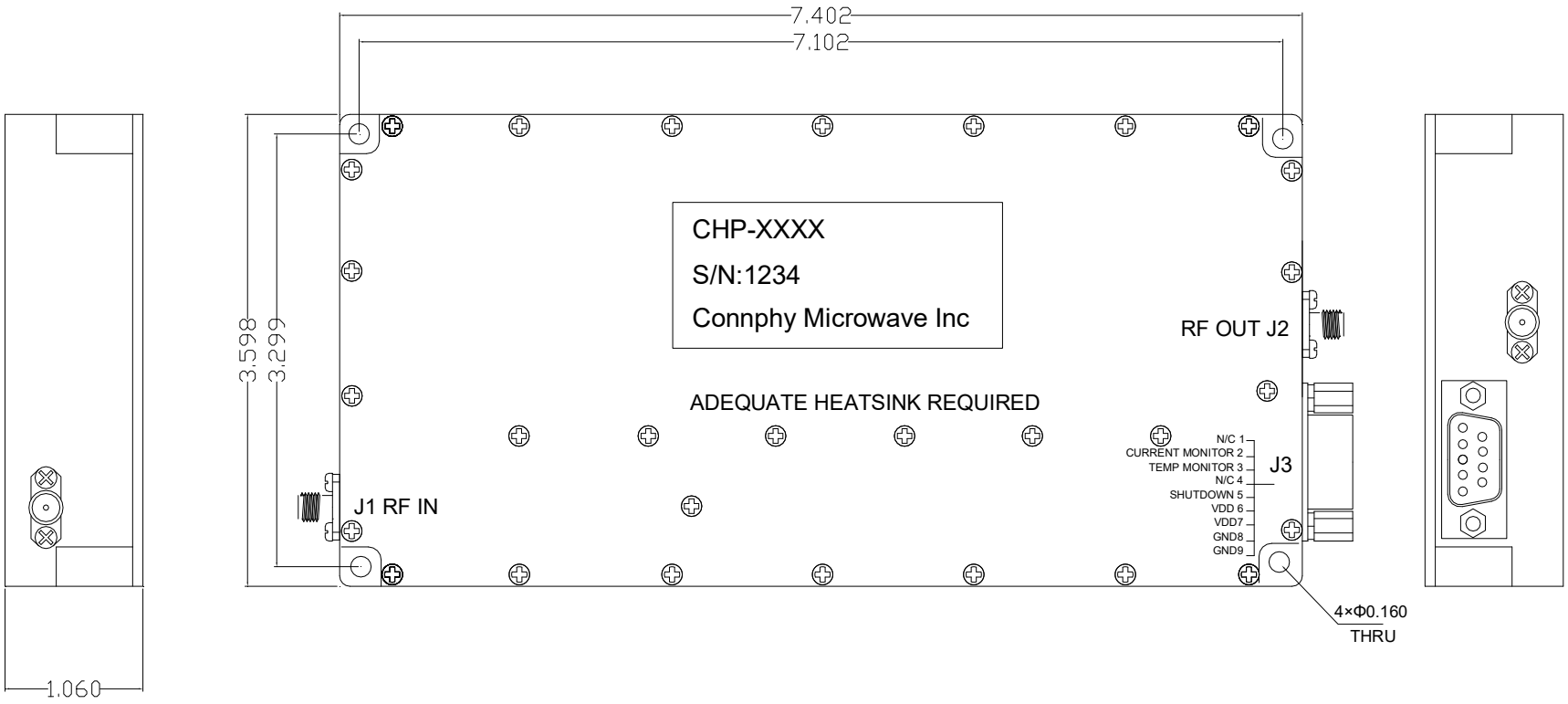
DC Connector PIN Assignment:

Pin	Function	Pin Definition
1	NC	NC
2	Current Monitor	50mV/100mA
3	Temp Monitor	10mV/°C
4	N/C	NC
5	Shutdown	Disable: TTL “High”
6,7	VDD	+26-30 V DC
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER
CHP-0.5G2.5G-4647-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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DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc. www.connphy.com sales@connphy.com
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