

CHP-0.8G3G-5047-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: 800-3000 MHz
- Power Gain: 50 dB Typ, 46 dB Min
- Gain Flatness: ±2.0 dB Max
- Output Psat: +47 dBm Min
- Output P1dB: +43 dBm Min
- Harmonics: -20dBc Typ
- Non Harmonics Spurious: -60 dBc Typ
- Input Power: +10 dBm Max
- Input Return Loss: 10 dB Min
- Output Return Loss: 10 dB Typ
- DC Voltage: +28±0.4 V Typ
- DC Supply Current: 6.3 A Max
- Switching Time: 2 uSec Typ

Environmental Ratings:

- Temperature: -40°C to +85 °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:

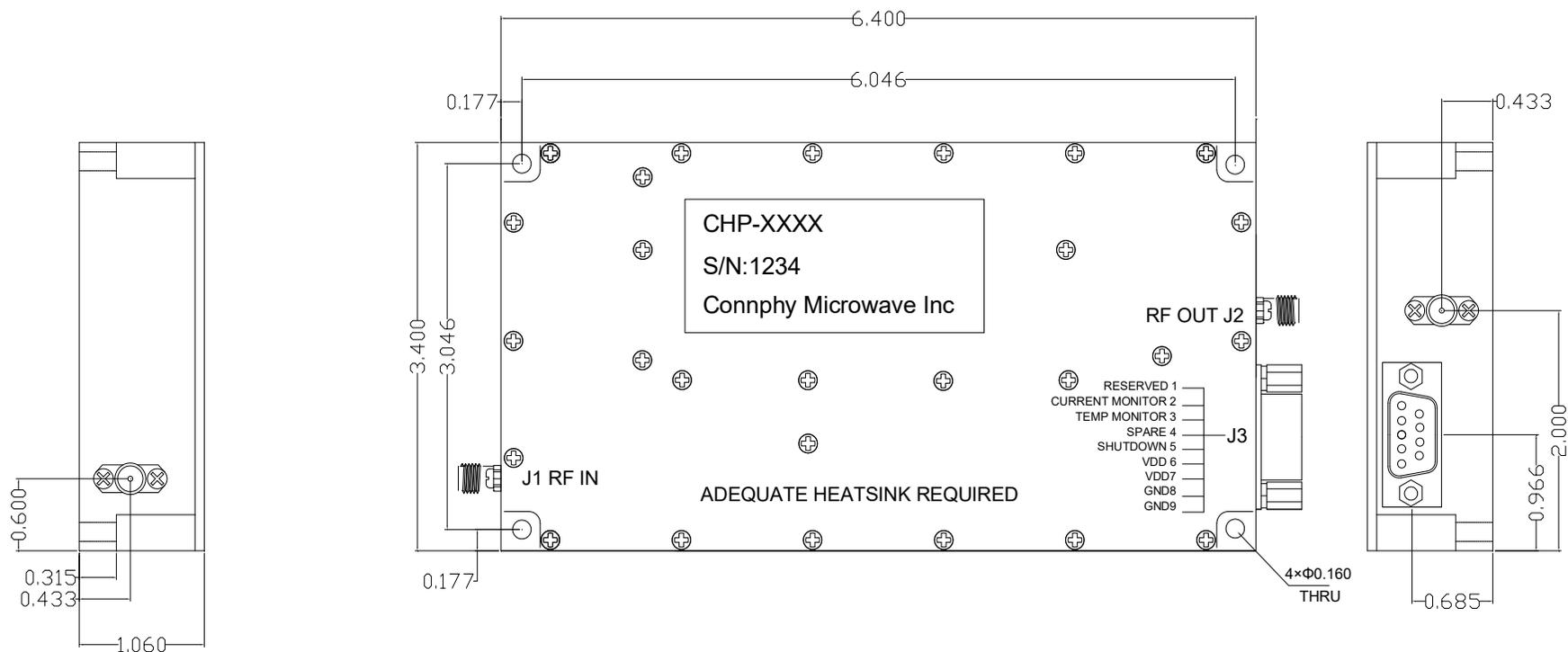
Parameter	Specification
Dimensions WxHxD	6.400 x 3.400 x 1.060 Inch
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink(Not Supplied)

DC Connector PIN Assignment:

Pin	Function	Pin Definition
1	NC	NC
2	Current Monitor	50mV/100mA
3	Temp Monitor	10mV/°C
4	NC	NC
5	Shutdown	Disable: TTL "High"
6,7	VDD	+28 V DC
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER CHP-0.8G3G-5047-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 +65 °C Operating -40 °C to +70 °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

SOLID STATE HIGH POWER AMPLIFIER

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