

**CHP-2.5G6G-4646-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:40W Typ
- Built-in Protection, Control & Monitoring Circuits
- High reliability, ruggedness, and High Efficiency

**Electrical Specifications:**

- Frequency: 2.5-6.0 GHz
- Power Gain: 46 dB Min
- Gain Flatness: ±2.0 dB Max
- Gain Adjustment Range: 25 dB Min
- Output Psat: +46 dBm Typ
- Output P1dB: +40 dBm Typ
- Output IP3: +50 dBm Typ
- Harmonics: -25dBc Typ
- Non Harmonics Spurious: -70 dBc Typ
- Input Power: +10 dBm Max
- Input Return Loss: 10 dB Min
- DC Voltage: +27 to 29 V DC Typ
- DC Supply Current: 10 A Max
- Switching Time: 5 uSec Max

**Environmental Ratings:**


- Temperature: -20°C to +70 °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:**

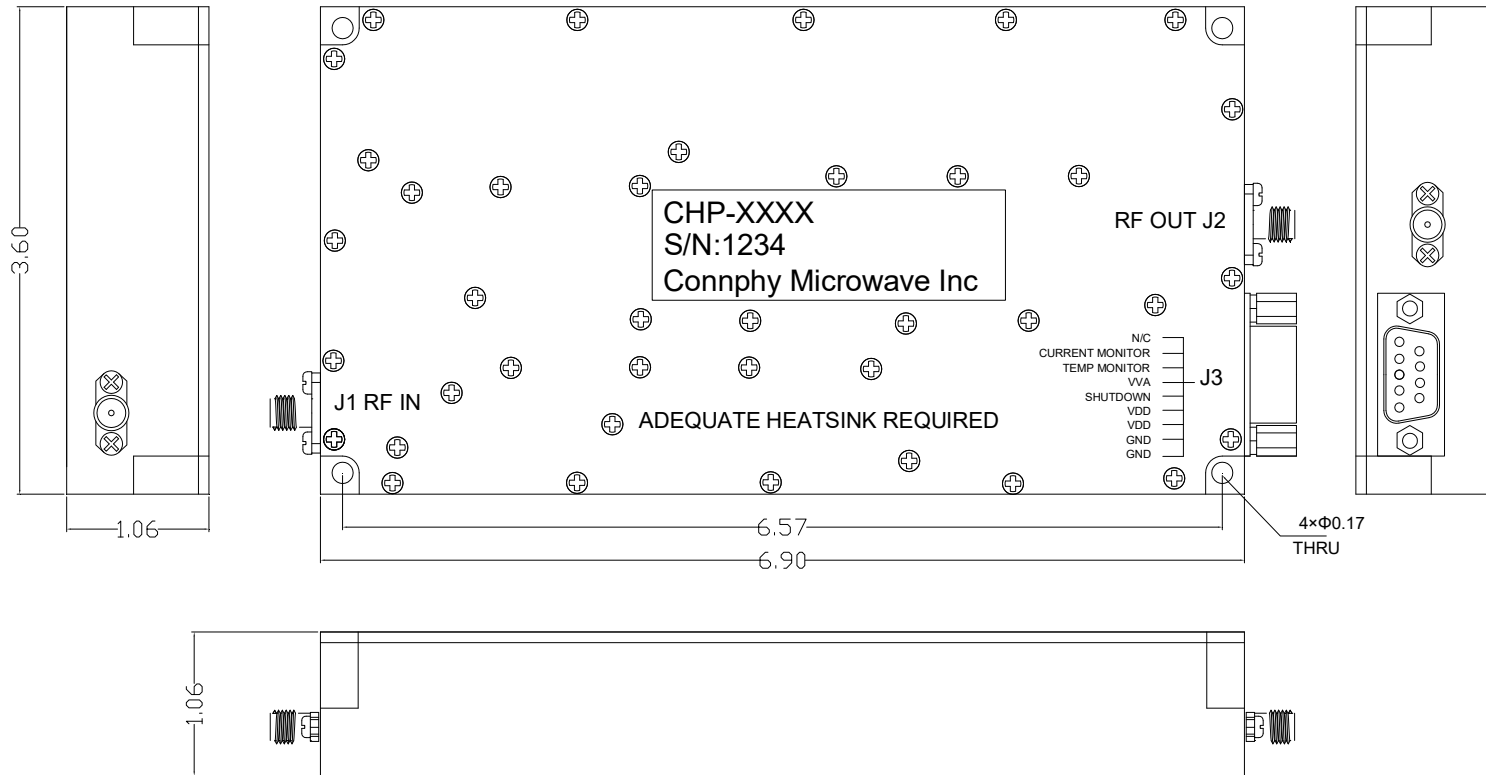
Parameter	Specification
Dimensions WxHxD	6.9 x 3.6 x 1.06 Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink(Not Supplied)

**DC Connector PIN Assignment:**

Pin	Function	Pin Definition
1	N/C	No Connection
2	Current Monitor	50mV/100mA
3	Temp Monitor	10mV/°C (0.25V = 25°C)
4	VVA	Control voltage range: 0-5VDC
5	Shutdown	TTL Low=Enable:High=Disable
6,7	VDD	+27 to 29 V DC
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER			
CHP-2.5G6G-4646-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 +70 °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

### SOLID STATE HIGH POWER AMPLIFIER

#### CHP-2.5G6G-4646-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 : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.