

**CHP-6G18G-4040-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:**

- 6.0-18.0 GHz ultra-broadband
- Psat:10W Typ
- High efficiency, High reliability and ruggedness
- Built-in protection circuits

**Electrical Specifications:**

- Frequency: 6.0-18.0 GHz
- Power Gain: 40 dB Min
- Gain Flatness: ±5 dB Typ
- Power Output: +40 dBm Typ
- Harmonics: -10 dBc Typ
- Non Harmonics Spurious: -60 dBc Typ
- Input Power: +5 dBm Max
- Input Return Loss: 10 dB Min
- Output Return Loss: 10 dB Typ
- DC Voltage: +27 to +29 V
- DC Supply Current: 2.5 A Typ

**Environmental Ratings:**

- Temperature: 0°C to +50 °C Operating  
-20 °C to +65 °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:**

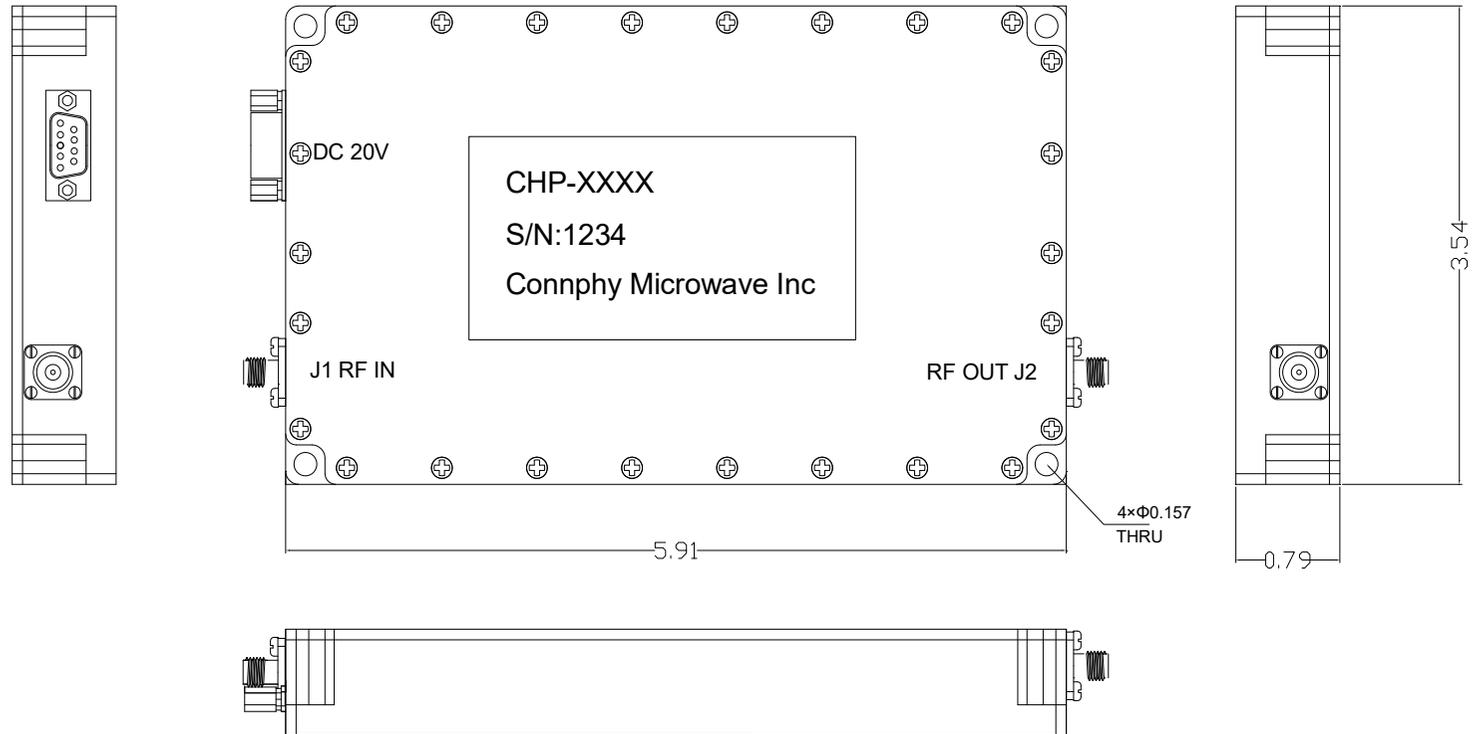
Parameter	Specification
Dimensions WxHxD	5.91X3.54X0.79 inch
RF Connectors In/Out	SMA-F
DC Connector	J30J
Cooling	External Heatsink

**DC Connector PIN Assignment:**

Pin	Description	Specification
1-3	+28V	+28 V DC
6-9	GND	GND
4-5	NC	+28 V DC

SOLID STATE HIGH POWER AMPLIFIER CHP-6G18G-4040-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:	0°C to +50 °C Operating -20 °C to +65 °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-6G18G-4040-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.