

**CHP-0.3G3.8G-4747-S** is a solid-state design utilizing GaN power transistor technology. The amplifier will support continuous, modulated or pulsed

**Features:**

- 0.38-3.8GHz ultra-broadband
- Class AB linear GaN design
- High efficiency, High reliability and ruggedness
- Good linearity, Low distortion

**Electrical Specifications:**

- Frequency: 0.38-3.8 GHz
- Power Gain: 47 dB Min
- Gain Flatness: ±1.5 dB Max
- Power Output: +47 dBm Min
- Harmonics: -20 dBc Typ
- Non Harmonics Spurious: -60 dBc Typ
- Input Power: +8 dBm Max
- Input Return Loss: 10 dB Min
- Output Return Loss: 10 dB Min
- DC Voltage: +28 to 30 V
- DC Supply Current: 7 A Max
- Switching Time: 5 µSec Max

**Environmental Ratings:**

- Temperature: -20°C to +75 °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:**

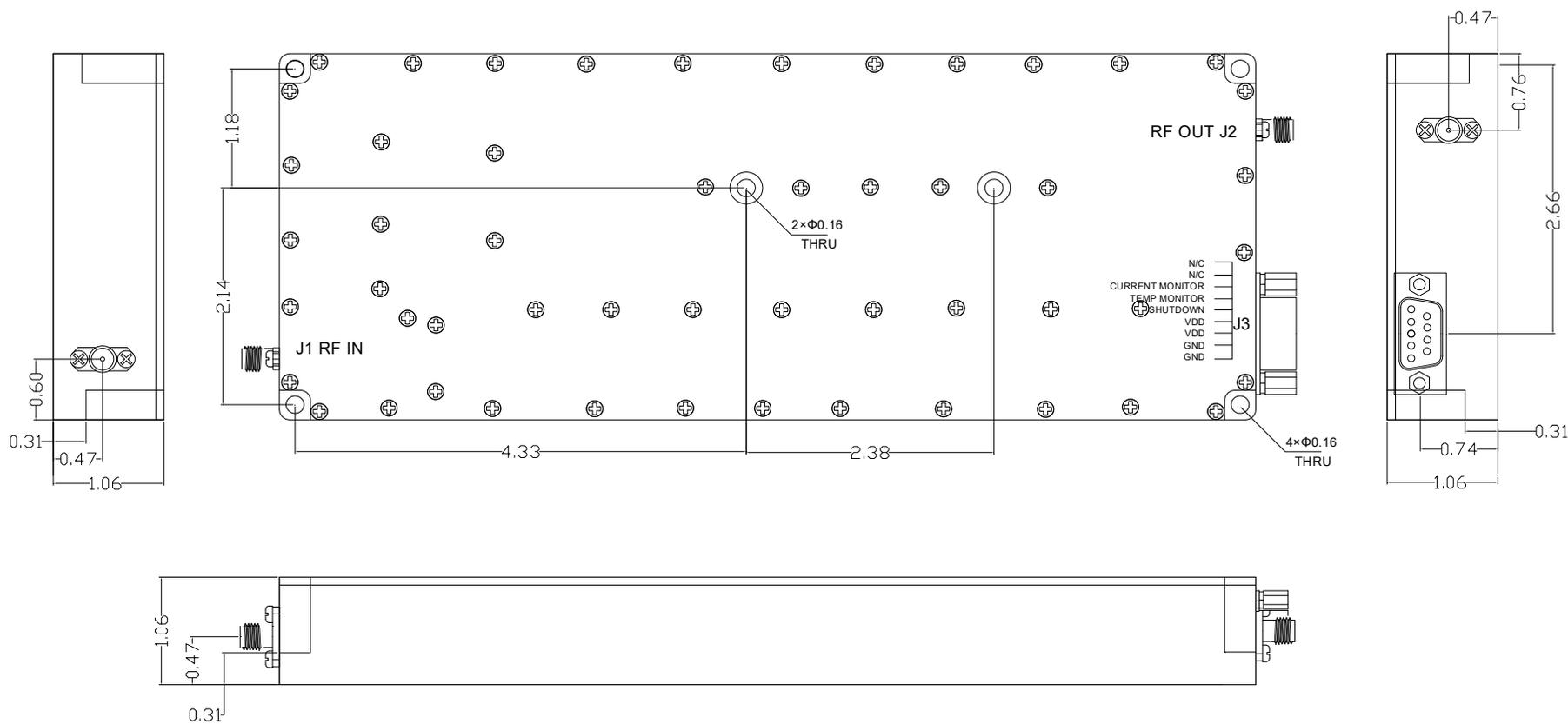
Parameter	Specification
Dimensions WxHxD	9.37 x3.22 x 1.06 Inches
RF Connectors In/Out	SMA-F
DC Connector	9-Pin D-Sub
Cooling	External Heatsink

**DC Connector PIN Assignment:**

Pin	Description	Specification
1	NC	
2	NC	
3	Current Monitor	20mV/100mA nom
4	Temp Monitor	10mV/C +500mV @ 50C
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+V	+28V DC
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER CHP-0.3G3.8G-4747-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 : 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 +75 °C Operating -40 °C to +85 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
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## 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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