

CHP-250K1G-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:

- 250 kHz-1 GHz ultra-broadband
- Psat: 10W Min
- Suitable for all modulations standards
- Built-in protection circuits
- Class AB linear LDMOS design

Electrical Specifications:

- Frequency: 0.25-1000 MHz
- Power Gain: 40 dB Min
- Gain Flatness: ±2 dB Max
- Power Output: +40 dBm Min
- Harmonics: -20 dBc Typ
- Non Harmonics Spurious: -60 dBc Typ
- Input Power: +10 dBm Max
- Input Return Loss: 10 dB Min
- Output Return Loss: 10 dB Min
- DC Voltage: +28 to +30 V
- DC Supply Current: 2 A Typ

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:

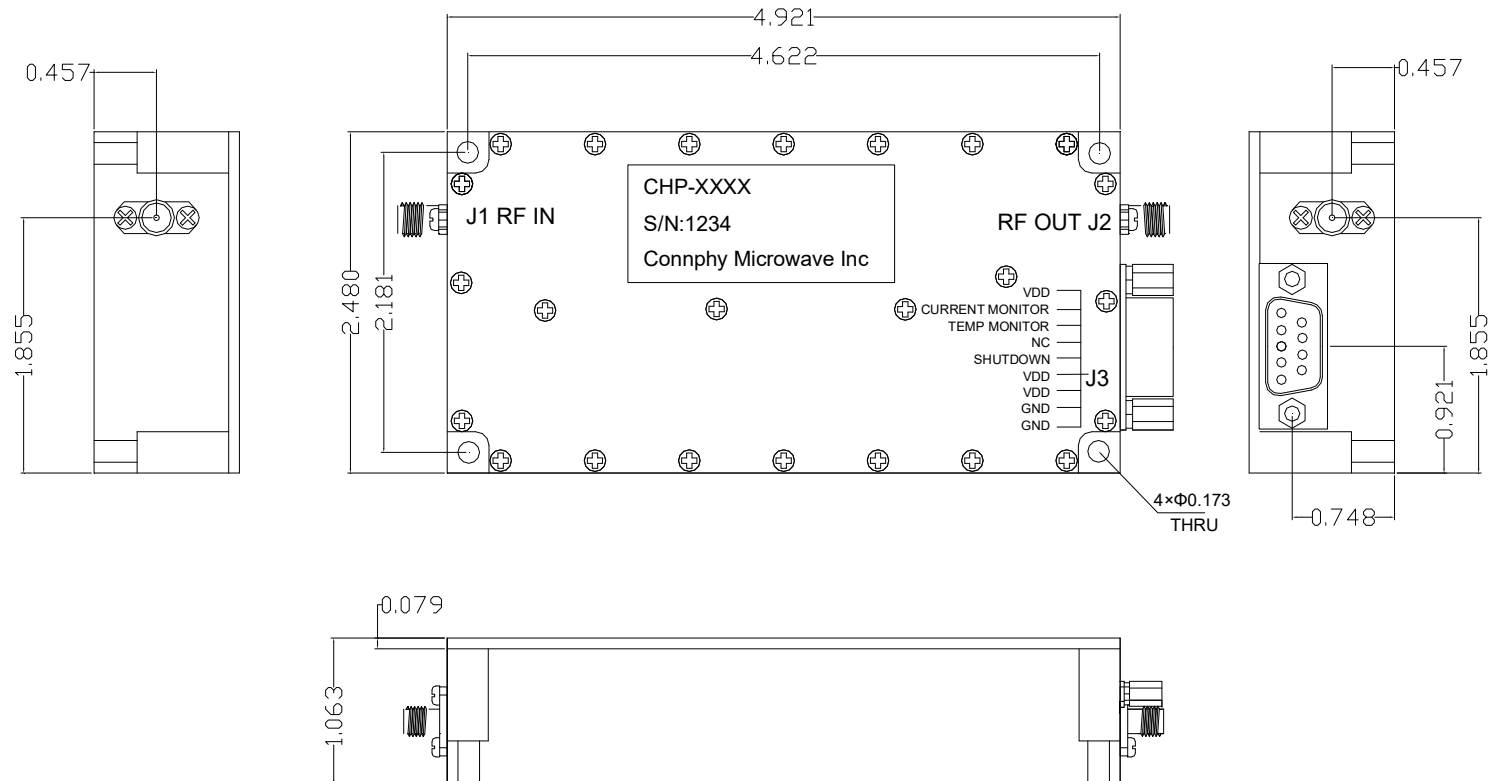
Parameter	Specification
Dimensions WxHxD	4.921 X 2.480 X 1.063 Inches
RF Connectors In/Out	SMA-F
DC Connector	9-Pin D-Sub
Cooling	External Heatsink

DC Connector PIN Assignment:

Pin	Description	Specification
1	NC	NC
2	Gain Control	Option-103 - Analog Gain Control
3	CURRENT SENSOR	50mV/100mA Typ
4	TEMP SENSOR	10mV/C +500mV Typ
5	Remote Control	TTL
6,7	+28	+28V
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER CHP-250K1G-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

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

SOLID STATE HIGH POWER AMPLIFIER

CHP-250K1G-4040-S

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.