CHP-0.5G3G-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:

0.5-3.0 GHz ultra-broadband

Psat: 50W Min

High efficiency, High reliability and ruggedness

Built-in protection circuits

Electrical Specifications:

Frequency: 0.5-3.0 GHz Power Gain: 50 dB Min Gain Flatness: ±2.0 dB Max Power Output: +47 dBm Min Harmonics: -15 dBc Min Non Harmonics Spurious: -80 dBc Min Input Power: +15 dBm Max Input Return Loss: 14 dB Min Output Return Loss: 10 dB Typ DC Voltage: 30 V Typ DC Supply Current: 6.5 A Typ

Mechanical Specifications:

Parameter	Specification
Dimensions WxHxD	8.66 × 3.96 ×1.10Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

DC Connector PIN Assignment:

Pin	Description	Specification
1	Status Monitor	TTL "high" = RF O/P >5w nom
2	Current Monitor	50mV/100mA nom
3	Temp Monitor	10mV/C +500mV @ 50C
4	NC	
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+V	+28V +/-2V
8,9	GND	GND

Environmental Ratings:

Temperature: -10°C to +70 °C Operating

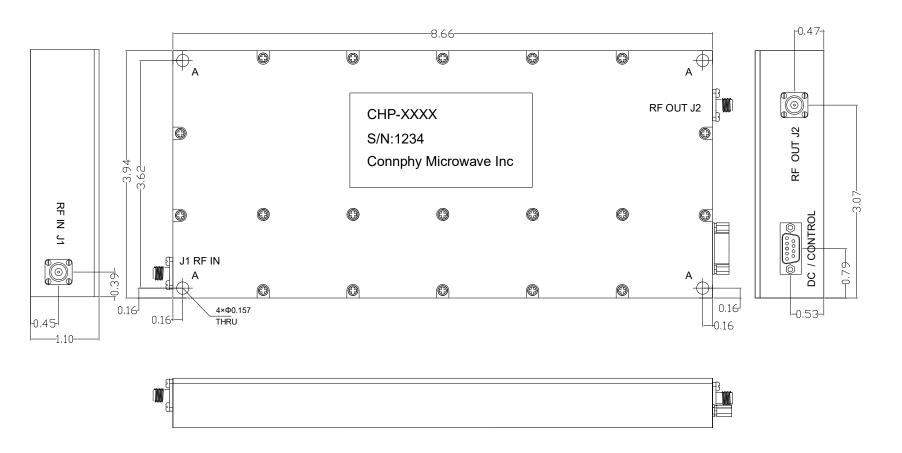
-40 °C to +90 °C Non-Operating

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-0.5G3G-5047-S

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc.
CHECKRD:	DATE: 14/05/15	SHEET : 1 OF 2	www.connphy.com sales@connphy.com
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Mechanical Outline (Inches):



Environmental Ratings:

Temperature: -10°C to +70 °C Operating

-40 °C to +90 °C Non-Operating

Vibration: MIL-STD-202F, Method 204D Cond. B
Altitude: MIL-STD-202F, Method 105C Cond. B
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		Rev.1.0			
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CHECKRD:	DATE:	SHEET:	www.connphy.com		
	14/05/15	2 OF 2	sales@connphy.com		
ISSUED: SIZE: SCALE: Notes: SPEC ARE S	Notes: SPEC ARE SUBJECT TO				
	А	N / A	CHANGE WITHOUT NOTICE.		