

**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

**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

**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

SOLID STATE HIGH POWER AMPLIFIER CHP-0.5G3G-5047-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.

