CHP-1G6G-5050-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:

1.0-6.0 GHz ultra-broadband Class AB linear GaN design

High efficiency, High reliability and ruggedness

Good linearity, Low distortion

Electrical Specifications:

Frequency: 1.0-6.0 GHz Power Gain: 50 dB Min Gain Flatness: ±2.0 dB Max Power Output: +50 dBm Min Output P1dB: +47 dBm Typ -20 dBc Typ Harmonics: 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 V Typ DC Supply Current: 24 A Typ Turn On / Off Speed 5 μSec Max

Mechanical Specifications:

Parameter	Specification
Dimensions WxHxD	10.24 x 7.87x 1.08Inches
RF Connectors In/Out	SMA / N female
DC Connector	Hybrid 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
A1,A2	+V	+28V DC
A3,A4	GND	GND

Environmental Ratings:

Temperature: -20°C to +65 °C Operating

-40 ºC to +85 ºC Non-Operating

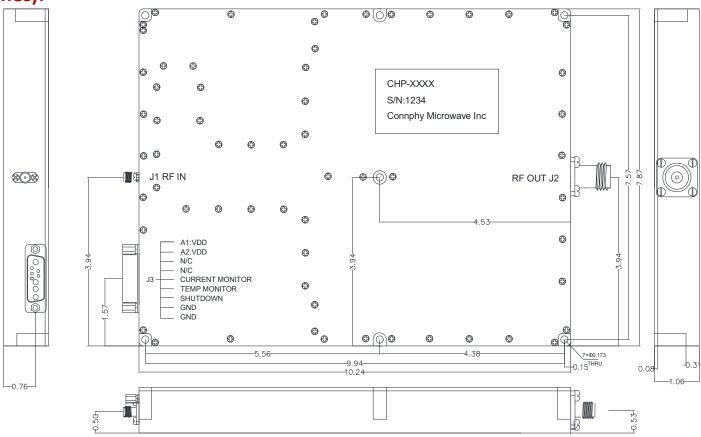
Vibration: MIL-STD-202F, Method 204D Cond. B
Altitude: MIL-STD-202F, Method 105C Cond. B
Temperature Cycle: MIL-STD-202F, Method 107D Cond. A

SOLID STATE HIGH POWER AMPLIFIER CHP-1G6G-5050-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:	SCALE :	Notes: SPEC ARE SUBJECT TO		

CHANGE WITHOUT NOTICE.

N/A

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
Altitude: MIL-STD-202F, Method 105C Cond. B
Temperature Cycle: MIL-STD-202F, Method 107D Cond. A

SOLID STATE HIGH POWER AMPLIFIER						
	CHP-1G6G-5050-S					
DRAWN:	DWG NO.:	REV CODE:	CONNIDIIV			
		Rev.1.0	CONNPHY			
			Microwave Inc.			
CHECKRD:	DATE:	SHEET:	www.connphy.com			
	14/05/15	2 OF 2	sales@connphy.com			
			Saics@compny.com			
ISSUED:	SIZE:	SCALE :	Notes: SPEC ARE SUBJECT TO			
	Α	N / A	CHANGE WITHOUT NOTICE.			