**CHP-4G6G-4846-S** is a solid-state design utilising GaN power transistor technology. The amplifier will support continuous, modulated or pulsed input signals, and is designed to operate in 100% duty cycles. Protection circuits are incorporated to ensure long-term reliability.

#### Features:

Solid State Linear GaN design
Control line for remote operation
Over temperature protection
Built-in protection circuits

#### **Electrical Specifications:**

Frequency: 4.0-6.0 GHz Power Gain: 48 dB Min Gain Flatness: ±1.5 dB Max Power Output: +45.5 dBm Min Harmonics: -15 dBc Typ Non Harmonics Spurious: -80 dBc Min Input Power: +15 dBm Max Input Return Loss: 14 dB Min Output Return Loss: 10 dB Typ

DC Supply Current: 5 A Typ, 6 A Max

Mute Rise & Fall Time: 2uS Typ

DC Voltage:

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

## **Environmental Ratings:**

Temperature: -10°C to +60 °C Operating

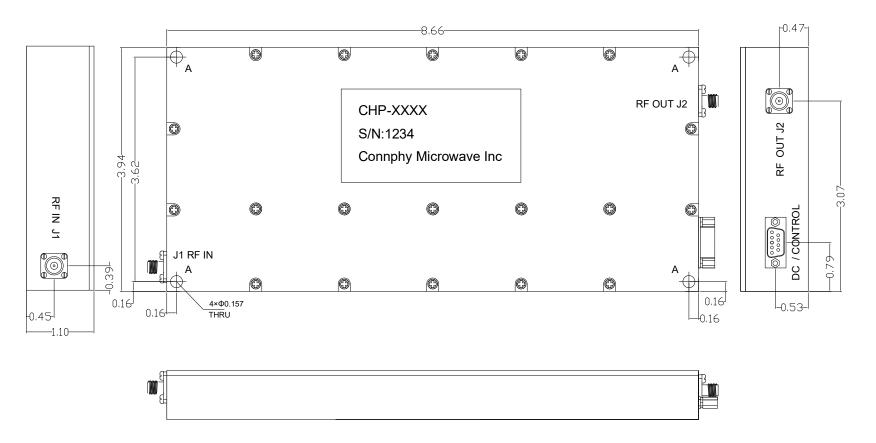
-40 °C to +90 °C Non-Operating

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

28 V Typ

SOLID STATE HIGH POWER AMPLIFIER CHP-4G6G-4846-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 (Inchs):**



#### **Environmental**

Temperature: -10°C to +60 °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-4G6G-4846-S					
CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	www.connphy.com sales@connphy.com		
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.		