

CHP-0.5G2.5G-4643-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:

Solid State Linear GaN design
Over temperature protection
Reverse polarity protection
Control line for remote operation

Electrical Specifications:

Frequency: 0.5-2.5 GHz
Power Gain: 46 dB Min
Gain Flatness: ± 1.5 dB Max
Power Output: +44 dBm Typ, +43 dBm Min
Harmonics: -15 dBc Min
Non Harmonics Spurious: -80 dBc Min
Input Power: +15 dBm Max
Input Return Loss: 10 dB Min
Output Return Loss: 10 dB Min
DC Voltage: 28 V Typ
DC Supply Current: 2.3 A Typ
Mute Rise & Fall Time: 1mS 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	5.91 × 3.94 × 1.10Inches
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

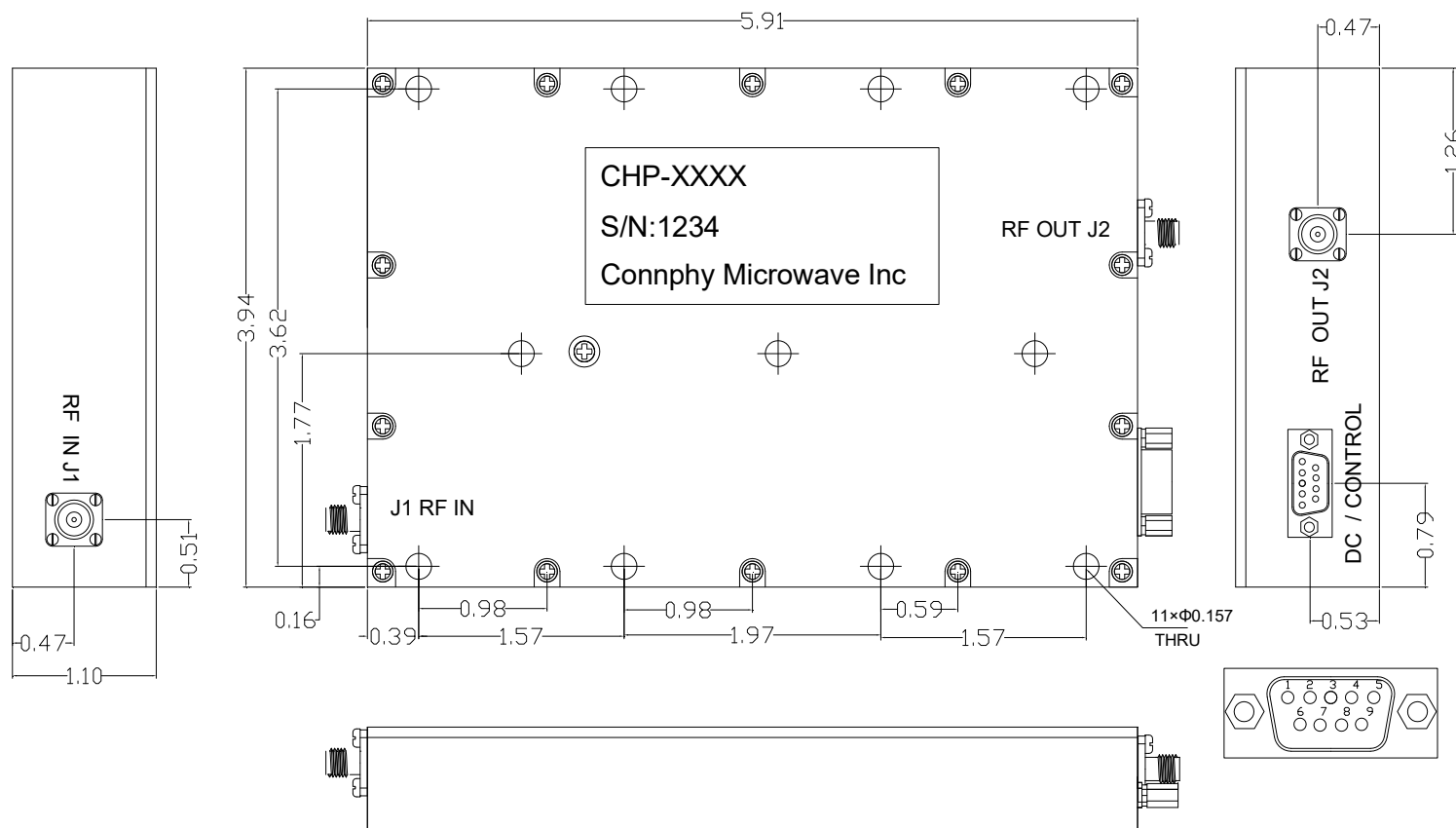
DC Connector PIN Assignment:

Pin	Description	Specification
1-4	NC	
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+V	+28V
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER CHP-0.5G2.5G-4643-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 Ratings:

Temperature:	-10°C to +70 °C Operating -40 °C to +90 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
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CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.