CHP-0.5G2.5G-5653-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:

0.5-2.5 GHz ultra-broadband

Psat: 200W Min

High efficiency, High reliability and ruggedness

Built-in protection circuits

Electrical Specifications:

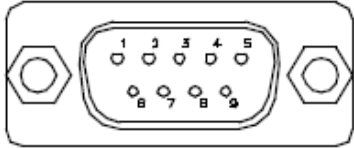|	
Frequency:	0.5-2.5 GHz
Power Gain:	56 dB Min
Gain Flatness:	±2 dB Max
Power Output:	+52.5 dBm Min
Harmonics:	-15 dBc Min
Non Harmonics Spurious:	-80 dBc Min
Input Power:	+15 dBm Max
Input Return Loss:	14 dB Min
Output Return Loss:	10 dB Min
DC Voltage:	28 V Typ
DC Supply Current:	18 A Typ

Mechanical Specifications:

Parameter	Specification
Dimensions WxHxD	8.66 × 3.94 × 1.1mm
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

DC Connector PIN Assignment:

Pin	Function	Pin Definition
1-4	NC	
5	TTL/MUTE	
6,7	+28V INPUT	
8,9	GND	

Environmental Ratings:

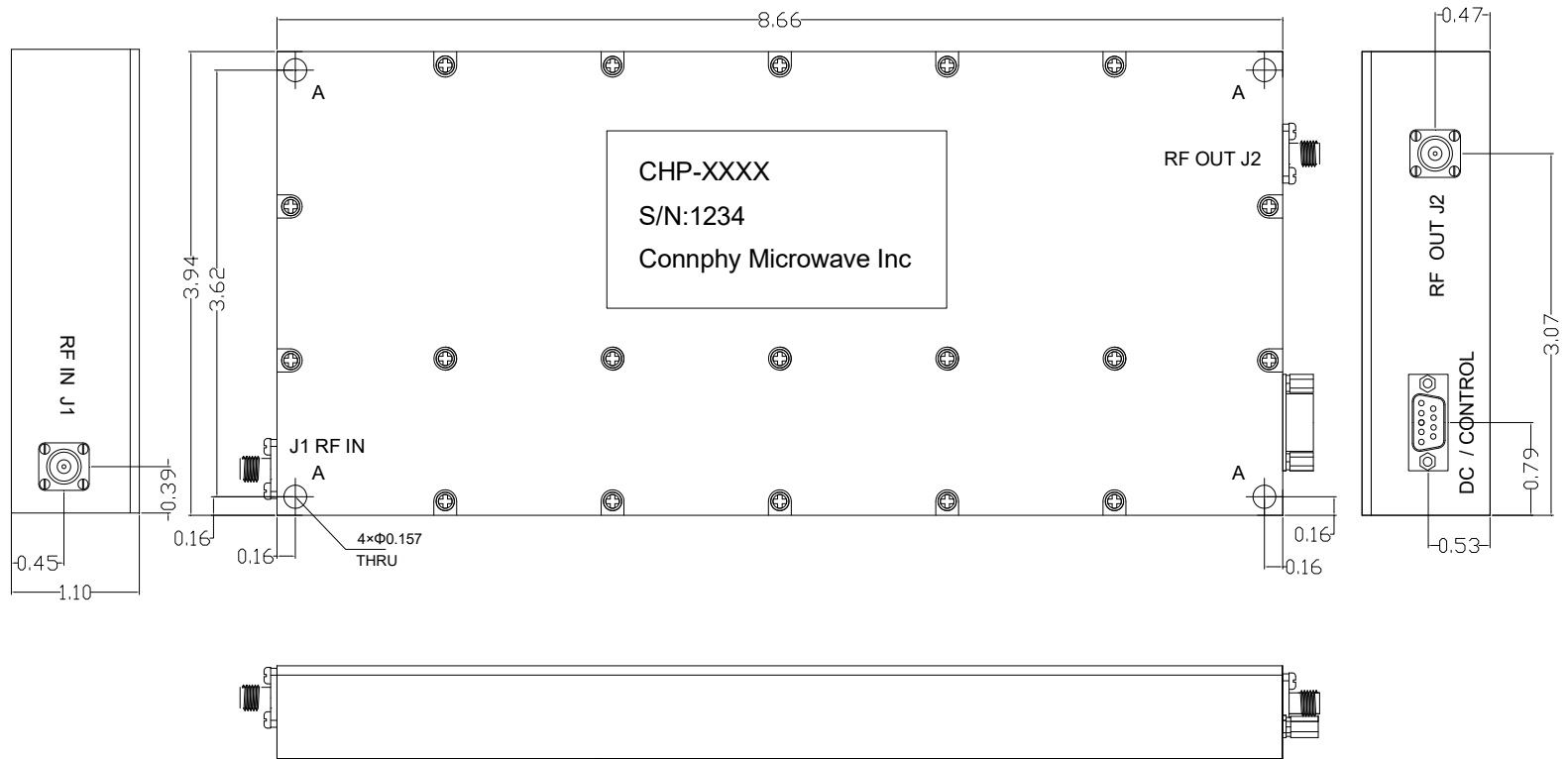|	
Temperature:	-20ºC to +65 ºC Operating
	-40 ºC to +70 ºC Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

SOLID STATE HIGH POWER AMPLIFIER
CHP-0.5G2.5G-5653-S

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

Mechanical Outline (Inches):

8.66

A

A

RF OUT J2

RF OUT J2

CHP-XXXX

S/N:1234

Connphy Microwave Inc

3.94

3.62

RF IN J1

3.07

J1 RF IN
A

A

DC / CONTROL

0.39

0.79

4×Φ0.157
THRU

0.16

0.16

0.16

0.16

0.16

0.45

0.53

1.10

Environmental Ratings:

Temperature:	-20ºC to +65 ºC Operating
	-40 ºC to +70 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