MODEL 5303129-002

3.40-3.50 GHz
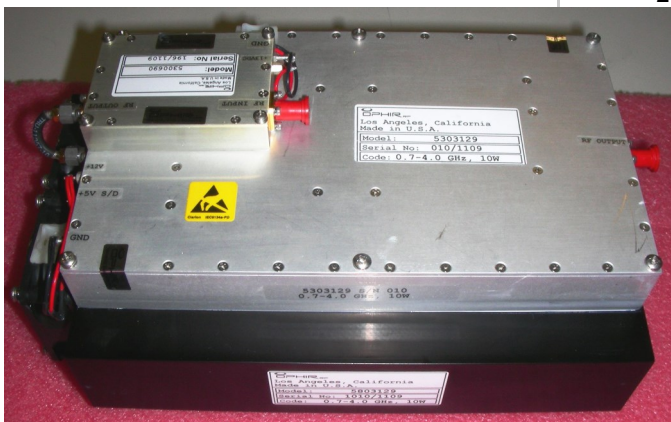### 10 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303129-002 is a 10 Watt broadband amplifier that covers the 3.40-3.50 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_RF amplifiers, the 5303129-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	3.40 3.50 GHz
2	Saturated Output Power	10 Watts typical
3	Power Output @ 1dB Comp.	6 Watts min
4	Small Signal Gain	+40dB min
5	Gain Flatness	$\pm$ 1.0 dB max
6	IP_3	+49 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 6 Watts
9	Spurious Signals	< -60 dBc typical @ 6 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	8.5 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm Maximum
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	9" x 5.2" x 1.7"
17	Weight	7.5 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Baseplate Temperature	0º C to +50º C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

Shown with Optional Heatsink and Fans

5303129-001 Special Features
◊ Comes with driver module (5300690, 700-4000MHz, 1 Watt)
◊ Heatsink and Fans Available (As seen in picture to the left)
—-To Order Heatsink and Fans
—Change part number from 5303129-002 to 5803129-002
◊ Enable/Disable Pin

Approved By: _____ Date: _____