



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)821-7413
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5303038-010
700 - 1000 MHz
30 WATTS W/ SHUTDOWN PIN
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303038-010 is a 30 Watt broadband amplifier that covers the 700 – 1000 MHz 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 5303038-010 comes with an extended

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	700 – 1000 MHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	20 Watts min
4	Small Signal Gain	+47 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+49 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 20 Watts
9	Spurious Signals	> -60 dBc typical @ 20 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	4.5 Amps max
12	DC Input	28 VDC nominal
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
16	Shutdown Pin	Open Collector Shutdown
<u>Mechanical</u>		
17	Dimensions	6" x 3" x 1.1"
18	Weight	2 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport



Approved By: _____ Date: _____