MODEL 5303060-001

1 - 1000 MHz
4 WATTS
LINEAR POWER RF AMPLIFIER
W/ VVA Option

Solid State Broadband High Power RF Amplifier

The 5303060-001 is a 4 Watt broadband amplifier that covers the 1 – 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. In addition this Amplifier has a built in VVA accessible via a feed-thru pin

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 5303060-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1 – 1000 MHz
2	Saturated Output Power	4 Watts typical
3	Power Output @ 1dB Comp.	2 Watts min
4	Small Signal Gain	+36 dB min
5	Gain Flatness	± 1.5 dB max
6	IP_3	+39 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 2 Watts
9	Spurious Signals	> -60 dBc typical @ 2 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current @ 2W	1.2 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
Mechanical		
16	Dimensions	6" x 3" x 1.1"
17	Weight	2 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.

VVA Option:
+0 VDC Maximum Attenuation
+5 VDC Minimum Attenuation

Approved By: _____ Date: _____