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MODEL 5303132-003
500-1000 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303132-003 is a 100 Watt broadband amplifier that covers the 500-1000 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 5303132-003 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	500-1000 MHz
2	Output Power @ Psat	100 Watts minimum
3	Small Signal Gain	+51 dB minimum
4	Gain Flatness @ Psat	+/-2.0 dB maximum +/-1.5 dB typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical -15 dBc maximum
8	Spurious Signals	-60 dBc maximum
10	Input/Output Impedance	50 Ohms nominal
11	Efficiency (PAE)	25% minimum 35% typical
12	Switching Time (Blanking) Enable TTL Low	5uSec maximum
13	DC Input	30VDC nominal
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
Mechanical		
17	Dimensions	Length 180mm Width 105mm Height <30mm
18	Weight	< 1.0Kg
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Baseplate Temperature	-20° C to +85° C Shutdown over 85° C Recovery @ 60° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F (Method 516.5)

DC and Interface Connector Pin Description

- ◇ Pin 1 VSWR ALARM
 - Normal TTL Low
 - Alarm TTL High
- ◇ Pin 2 Current Monitor
- ◇ Pin 3 Temperature Monitor
- ◇ Pin 4 Mute (On/Off Switching)
- ◇ Pin 5 VDD +30 VDC
- ◇ Pin 6 VDD +30VDC
- ◇ Pin 7 VDD +30VDC
- ◇ Pin 8 Ground
- ◇ Pin 9 Ground
- ◇ Pin 10 Ground