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MODEL 5303132-026

700-2700 MHz
80 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303132-026 is a 80 Watt broadband amplifier that covers the 700-2700 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 5303132-026 multiyear warranty.

DC and Interface Connector Pin Description

◊ Pin 1 No Connection
◊ Pin 2 Current Monitor
◊ Pin 3 Temperature Monitor
◊ Pin 4 Mute (On/Off Switching)
◊ Pin 5 VDD +24 - 30 VDC
◊ Pin 6 VDD +24 - 30 VDC
◊ Pin 7 VDD +24 - 30 VDC
◊ Pin 8 Ground
◊ Pin 9 Ground
◊ Pin 10 Ground

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	700-2700 MHz
2	Output Power @ PSAT	80 Watts minimum 100 Watts typical
3	Small Signal Gain	+50 dB minimum
4	Gain Flatness @ PSAT	+/-2.0 dB maximum +/-1.5 dB typical
5	Gain Variation	+/-2.5 dB Maximum
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical -15 dBc maximum
8	Spurious Signals	-60 dBc maximum -80 dB typical
10	Input/Output Impedance	50 Ohms nominal
11	Efficiency (PAE-in saturation)	25% minimum 35% typical
	Switching Time (Blanking) Enable TTL Low	5uSec maximum
12	DC Input	24 - 30 VDC nominal (maximum power at 30 VDC)
13	RF Input	+3 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	Length 180mm Width 105mm Height <30mm
17	Weight	< 1.0Kg
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Baseplate Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	MIL-STD-810F (Method 516.5)

 Approved By: _____ Date: _____