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MODEL 5303081-026

1.3 - 2.6 GHz

10 WATTS P-1dB

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303081-026 is a 10 Watt P-1dB broadband amplifier that covers the 1.3 – 2.6 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 5303081-026 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.3 – 2.6 GHz
2	Power Output @ 1dB Comp.	10 Watts min
3	Power Output @ Saturation	12 Watts typical
4	P-1dB Gain	+42 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+49 dBm typical
7	Input VSWR	2.2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	< -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	6 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	6.8" x 2.7" x 1.0"
17	Weight	1 Lb.
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	Normal Truck Transport

Specifications subject to change without notice.

