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MODEL 5304050
6.0-18.0 GHz
10 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High Power
 RF Amplifier**

The 5304050 is a 10 Watt broadband amplifier that covers the 6.0-18.0 GHz frequency range. This small and lightweight amplifier utilizes Class AB linear Gallium Nitride (GaN) 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 5304050 comes backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	6.0-18.0 GHz
2	Rated Output Power	10 Watts Nominal
4	Small Signal Gain	+41 dB min
5	Gain Flatness	
	6.0-16.0 GHz	+ 4.0 dB Nominal
	16.0-18.0 GHz	+ 4.0 dB Nominal
6	IP ₃	+45 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 5 Watts
9	Spurious Signals	< -60 dBc typical @ 5 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	8.0 Amps Maximum
12	DC Input	18 VDC Nominal
13	RF Input	0 dBm nominal +3 dBm Maximum
14	Blanking (Rise/Fall)	10 µSec Maximum
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
Mechanical		
17	Dimensions	6" x 3" x 1.1"
18	Weight	1 lb.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Operating Temperature	-40° C to +85° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 40,000' Above Sea Level
25	Shock and Vibration	MIL-STD 810G (Method 514.6)

Specifications subject to change without notice.



Similar assembly shown

Special Features	
◇	EXTREMELY BROADBAND
◇	HIGHLY EFFICIENT DESIGN
◇	WIDE OPERATING TEMPERATURE RANGE
◇	SMALL, COMPACT FORM FACTOR
Logic for 5304050	
◇	Blanking:
	3-5 Vdc or Open = On (un-blanked) <0.5 Vdc = Off (blanked)



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Typical Psat Test data for the 5304050



06/19 Approved By: _____ Date: _____