

5300 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413

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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.

	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
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 16.0-18.0 GHz	<u>+</u> 4.0 dB Nominal <u>+</u> 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
<u>Mechanical</u>		
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

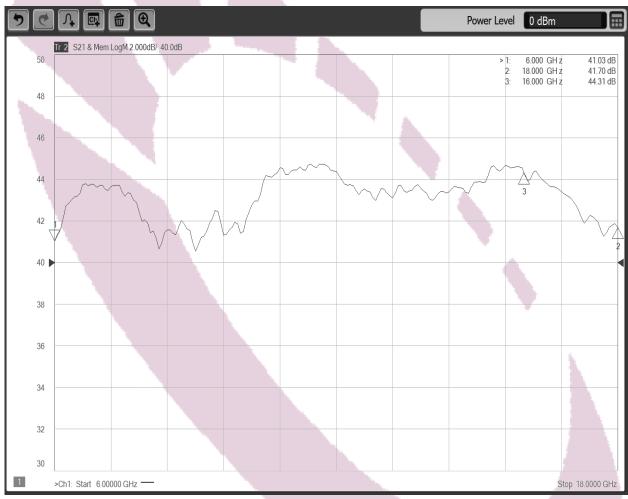
\Diamond	EXTREMELY BROADBAND	
\Diamond	HIGHLY EFFICIENT DESIGN	
\Diamond	WIDE OPERATING TEMPERATURE RANGE	
\Diamond	SMALL, COMPACT FORM FACTOR	
Logic for 5304050		
\Diamond	Blanking:	
	3-5 Vdc or Open = On (un-blanked) <0.5 Vdc = Off (blanked)	

Special Features



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Typical Psat Test data for the 5304050



