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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 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5304050 comes backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
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	± 3.0 dB max
6	IP <sub>3</sub>	+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 max
14	Blanking (Rise/Fall)	10 µSec Maximum
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
<b>Mechanical</b>		
17	Dimensions	6" x 3" x 1.1"
18	Weight	1 lb.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
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.

<b>SPECIAL FEATURES</b>	
◇	EXTREMELY BROADBAND
◇	HIGHLY EFFICIENT DESIGN
◇	WIDE OPERATING TEMPERATURE RANGE
◇	SMALL, COMPACT FORM FACTOR





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