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**MODEL 5303179**  
**6.0-18 GHz**  
**20 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State Broadband High Power RF Amplifier**

The 5303179 is a 20 Watt broadband amplifier that covers the 6.0-18 GHz frequency range. This small and lightweight amplifier utilizes Class A/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 gallium nitride (GaN) devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5303179 comes backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C			Unit of Measure
		Minimum	Nominal	Maximum	
<b>Electrical</b>					
1	Frequency Range	6		18	GHz
2	Output Power P <sub>SAT</sub>	15	20		Watts
3	Output Power P <sub>1dB</sub>	2	5		Watts
4	Small Signal Gain	43			dB
5	Gain Flatness			± 5.0	dB
6	IP <sub>3</sub>		42		dBm
7	Input VSWR			2:1	Ratio
8	Harmonics @ 10 Watts		-20	-12	dBc
9	Spurious @ 10 Watts		-60	-55	dBc
10	Input/Output Impedance		50		Ohms
11	DC Input Current @ 20W		7	10	Amps
12	DC Input		22	24	VDC
13	RF Input for Rated Power		<b>+10</b>	<b>+13</b>	<b>dBm</b>
14	Blanking (Rise/Fall)		3	5	µSec
15	RF Input Signal Format	CW/AM/FM/PM/Pulse			
16	Class of Operation	A/AB			
<b>Mechanical</b>					
17	Dimensions (L x W x H)	3" x 2.7" x 0.7"			
18	Weight		1.0		lbs.
19	RF Input Connector	SMA Female			
20	RF output Connector	SMA Female			
21	Grounding	Chassis			
22	Cooling	Adequate Heatsink and Airflow Required			
<b>Environmental</b>					
23	Operating Temperature Baseplate	-20		+60	°C
24	Operating Humidity, Non-Condensing			95	%
25	Operating Altitude			40,000	Feet above sea Level
26	MIL-STD 810G Shock and Vibration	Shock Method 514.5 Vibration Method 516.5			

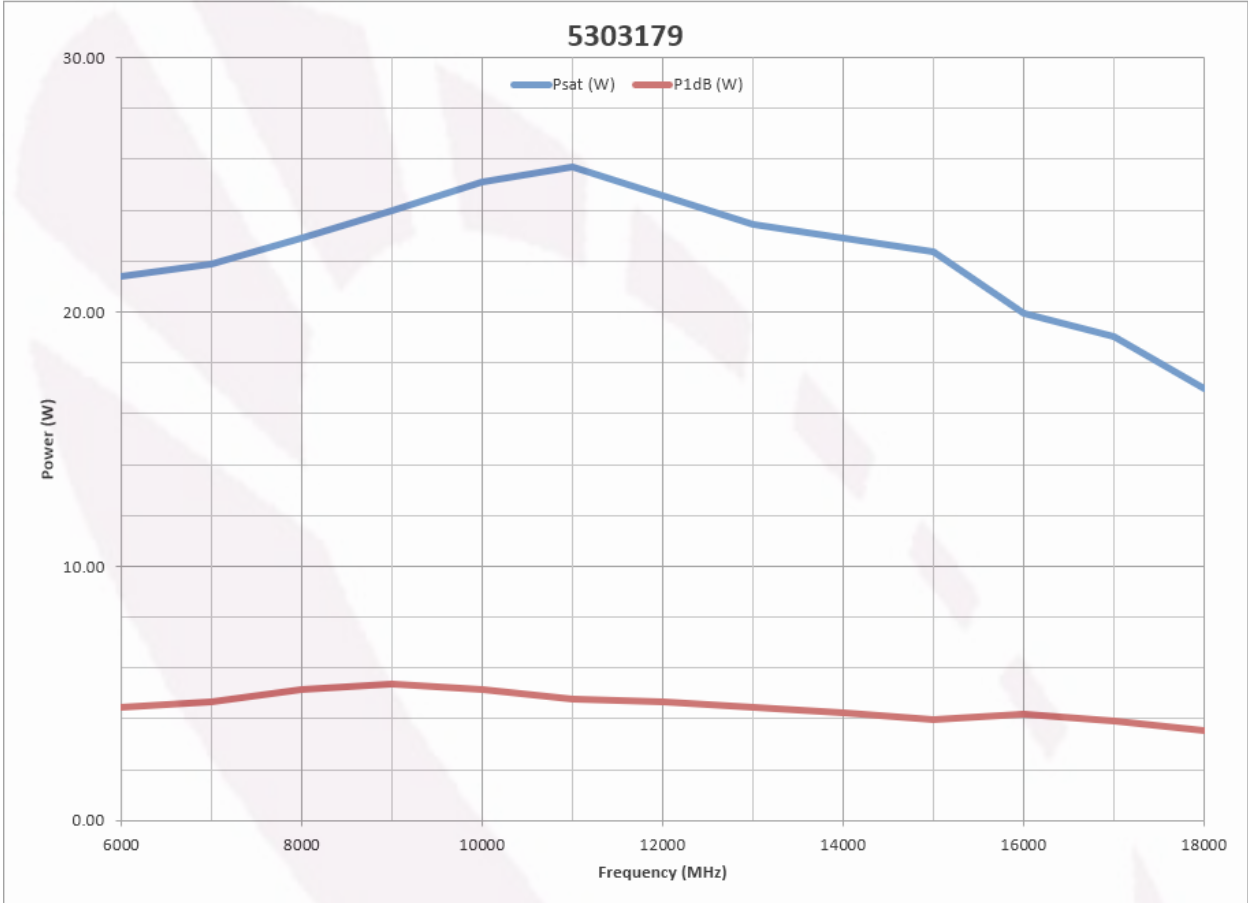
Specifications subject to change without notice.

12/24 Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



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Similar Module shown

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