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MODEL 5304056
6.0-12 GHz
25 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304056 is a 25 Watt broadband amplifier that covers the 6.0-12.0 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 5304056 comes backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	6.0-12.0 GHz
2	Output Power P _{SAT}	25 Watts Nominal 20 Watts Minimum
4	Small Signal Gain	+44 dB min
5	Gain Flatness	± 4.0 dB Nominal
6	IP ₃	+47 dBm typical
7	Input VSWR	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	8.0 Amps Maximum
12	DC Input	16 VDC to 24 VDC
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
<u>Environmental</u>		
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)

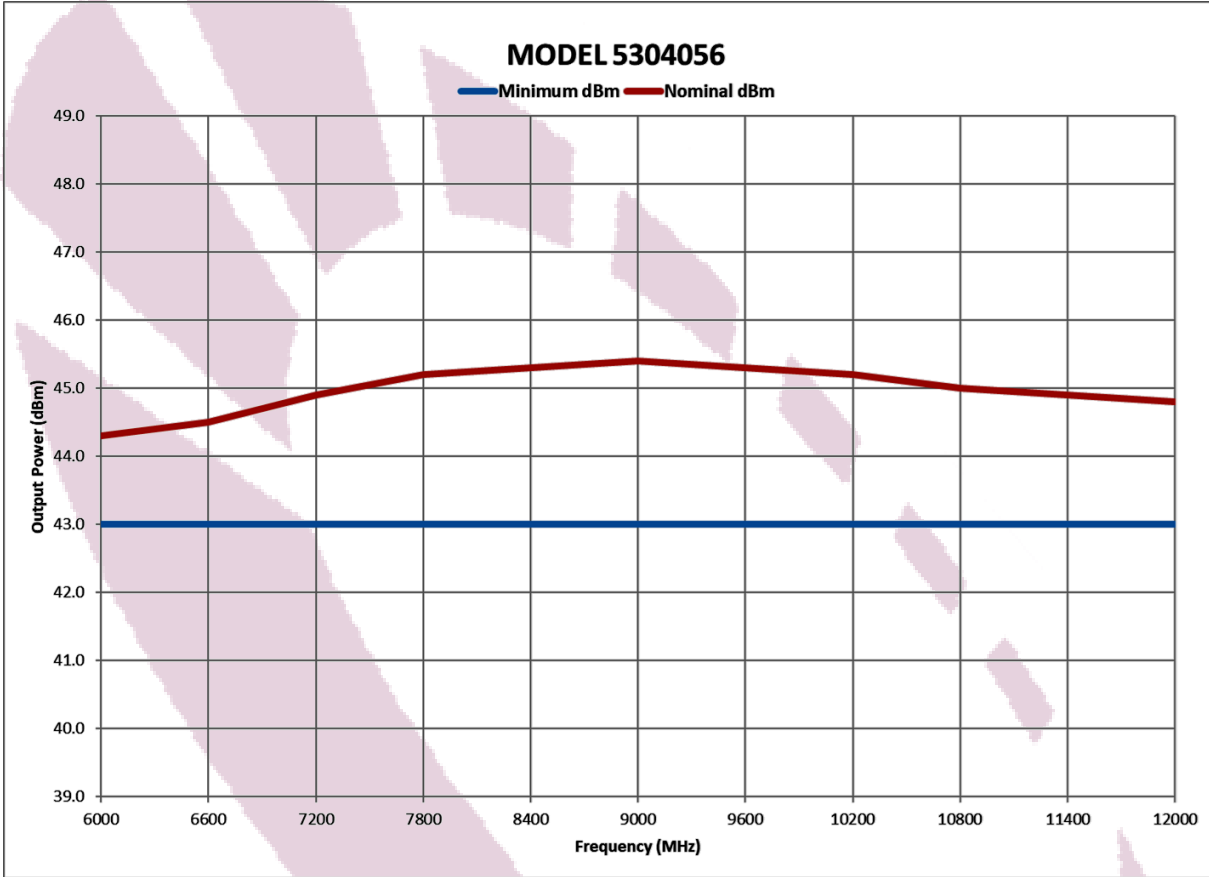
Specifications subject to change without notice.



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Similar assembly shown



Special Features

- ◇ EXTREMELY BROADBAND
- ◇ HIGHLY EFFICIENT DESIGN
- ◇ WIDE OPERATING TEMPERATURE RANGE
- ◇ SMALL, COMPACT FORM FACTOR

Logic for 5304056

◇	Blanking:
	3-5 Vdc or Open = On (un-blanked)
	<0.5 Vdc = Off (blanked)

