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MODEL 5304025
800-3000 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5304025 is a 200Watt broadband amplifier that covers the 800-3000 MHz frequency range. This amplifier utilizes Class A/B linear power 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 5304025 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	800-3000 MHz
2	Saturated Output Power	200 Watts typical (0.8-2.5 GHz) 160 Watts Typical (2.5-3.0 GHz)
3	Small Signal Gain	+55 dB minimum
4	Gain Flatness	± 2.5 dB maximum
5	Input VSWR	2:1 maximum
6	Harmonics	-20 dBc typical
7	Spurious Signals	< -60 dBc typical
8	Input/Output Impedance	50 Ohms nominal
9	DC Input Current	35 A maximum
10	DC Input	+28 VDC nominal
11	RF Input	0 dBm nominal
12	RF Input Signal Format	CW/AM/FM/PM/Pulse
13	Blanking @ PSAT	10 µsec maximum
14	Noise Figure	10 dB maximum
15	Class of Operation	A/B
<u>Mechanical</u>		
16	Dimensions	10.8" x 4.0" x 1.45"
17	Weight	3.55 Lbs.
18	Connectors	SMA female (INPUT) TNC female (OUTPUT)
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Baseplate Temperature	-40° C to +85° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 40,000' Above Sea Level
24	Shock and Vibration	MIL-STD-810F (Method 516.5)

Specifications subject to change without notice



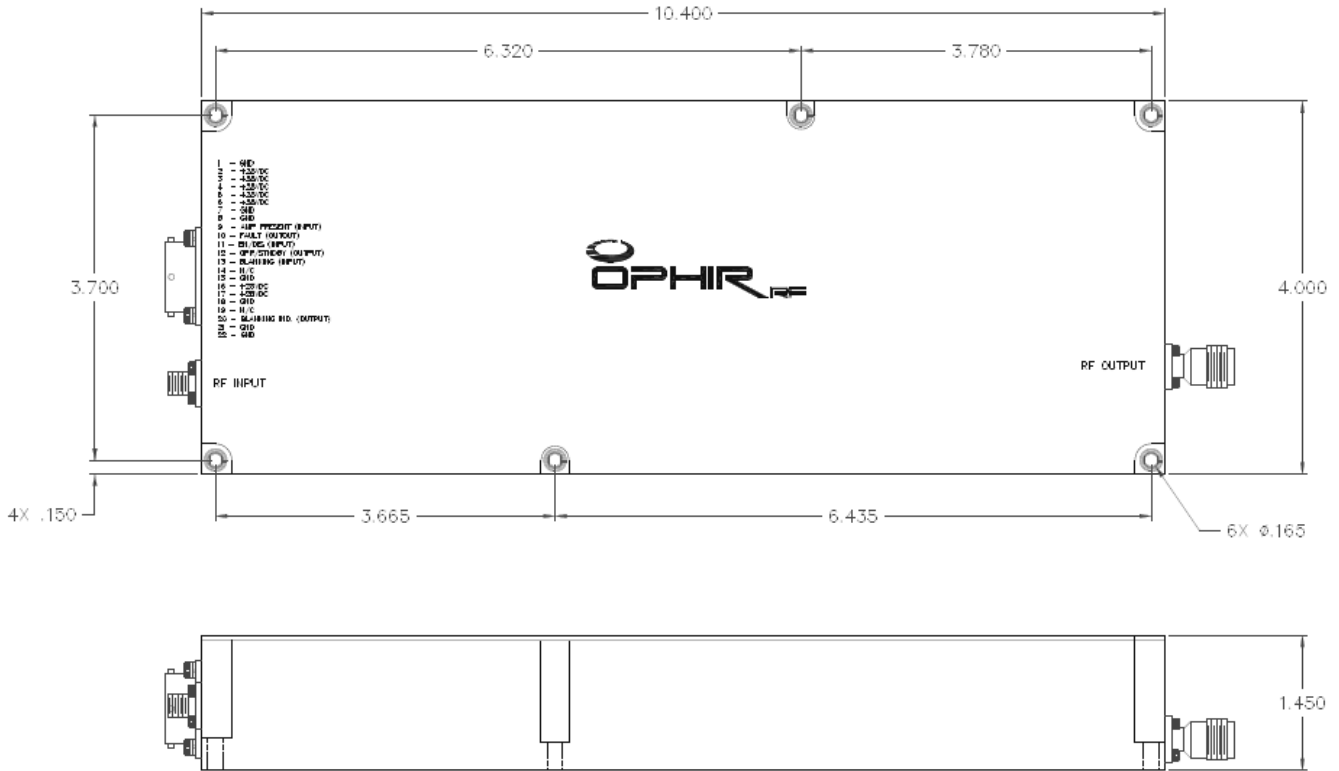
SIMILAR MODEL SHOWN





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Interface Connector Pin-Out			
Pin #	Description	Specifications	
2, 3, 4, 5, 6, 16, 17	VDD	+28 VDC	
1, 7, 8, 15, 18, 21, 22	GND	Ground	
9	Amplifier Present Indication	TTL High (OUTPUT)	
10	Amplifier Fault Indication	TTL (OUTPUT) Amplifier Operational: TTL "Low" (Logic 0) Amplifier Fault: TTL "High" (Logic 1)	
11	Amplifier Enable/Disable CMD	TTL (INPUT) Amplifier Disable: TTL "Low" (Logic 0) or Open Amplifier Enable: TTL "High" (Logic 1) Amplifier Reset: TTL "Low" then "High"	
12	Amplifier OPR / STBY Indication	TTL (OUTPUT) Amplifier is Standby: TTL "Low" (Logic 0) Amplifier is Operating : TTL "High" (Logic 1)	
13	Amplifier Blanking CMD	TTL (INPUT) Amplifier Enable: TTL "High" (Logic 1) Amplifier Blank: TTL "Low" (Logic 0) or Open	
14	N/C	Spare 1	
19	N/C	Spare 2	
20	Amplifier Blanking Indication *	TTL (OUTPUT) Amplifier' Transmitting: TTL "High" (Logic 1) Amplifier' Blanking: TTL "Low" (Logic 0) or Open	

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