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MODEL 5304043-020
2.0 - 6.0 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5304043-020 is a 50 Watt broadband amplifier that covers the 2.0 - 6.0 GHz frequency range. This small and lightweight amplifier utilizes Class A 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 5304043-020 comes with an extended multiyear warranty.

<u>Electrical</u>	<u>Parameter</u>	<u>Specification @ 25° C</u>
1	Frequency Range	2.0 - 6.0 GHz
2	Saturated Output Power	50 Watts min
3	Pout at 1 dB compression	25 Watts min
4	Small Signal Gain	+50 dB min
5	Small gain flatness Power gain flatness	± 3.0 dB max ± 2.0 dB max
6	IP ₃	50 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 30 Watts
9	Spurious Signals	< -60 dBc typical @ 30 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	10 Amps max
12	DC Input	+24 Vdc nominal +26 Vdc maximum
13	RF Input	+3 dBm max 0 dBm nominal for full rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<u>Mechanical</u>		
17	Dimensions	7" x 5" x 1.1"
18	Weight	2 lb. max
19	RF connectors	SMA female
20	DC input connector	D-sub, 9-pin, female
21	Grounding	Chassis
22	Cooling	Adequate heatsink and airflow required
<u>Environmental</u>		
23	Baseplate Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 20,000' Above Sea Level
26	Shock and Vibration	Normal truck transportation

Specifications subject to change without notice



D-sub, 9 pin-out:

- Pin 1, 4: No connection
- Pin 2: Current sense (Analog Vdc-output)
- Pin 3: Thermal sense (Analog Vdc-output)
- Pin 5: Shutdown; 3-5 Vdc = on; open or <0.5 Vdc = off
- Pin 6, 7: +24 Vdc (input)
- Pin 8, 9: Ground