OPHIR RF

5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

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.

Electrical	Parameter	Specification @ 25° C
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**	$\pm$ 3.0 dB max **$\pm$ 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
Mechanical		
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
Environmental		
23	Baseplate Temperature	0º C to +50º 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

Similar Module Shown

D-sub, 9 pin-out:

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

Approved By: _____Date: _____