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MODEL 5300685

0.8-4.2 GHz
8 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5300683 is a 8 Watt broadband amplifier that covers the 0.8-4.2 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB 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 5300685 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.8-4.2 GHz
2	Saturated Output Power	8 Watts typical
	P1dB Output Power	6 watts min
4	Small Signal Gain	+6 dB typical
5	Gain Flatness	± 2.0 dB max
6	IP ₃	+49 dBm typical
7	Input / Output VSWR	2:1 max
8	Harmonics	-20 dBc min @ 6 Watts
9	Spurious Signals	< -60 dBc max @ 6 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	3.0 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+33 dBm nominal for rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	6.5" L x 3.2" W x 1.1" H
17	Weight	3 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Baseplate Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

Available Options

- ◇ Heat Sink
- ◇ Heat Sink and Fans
- ◇ Ophir RF Model 800-4200MHz, 2.0 Watt Driver Module

