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MODEL 5302387

7.9-8.4 GHz
80 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5302387 is a 80 Watt broadband amplifier that covers the 7.9-8.4 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 5302387 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	7.9-9.4 GHz
2	Saturated Output Power	80 Watts min
3	Small Signal Gain	+50 dB min
4	Gain Flatness	± 1.5 dB max
5	IP ₃	+55 dBm typical
6	Input / Output VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 80 Watts
8	Spurious Signals	> -60 dBc typical @ 80 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	20 Amps max
11	DC Input	28 VDC nominal
12	RF Input	+0 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Output Protection	Internal isolator
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	7.9" x 7.4" x 1.5"
17	Weight	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
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
<u>Indications</u>		
25	Forward power	
26	Reflected power	
27	Temperature	
28	DC current	

Specifications subject to change without notice