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## Solid State Band-specific High Power RF Amplifier

The 5302054-004 is a 4 Watt band-specific amplifier that covers the 2.11 – 2.17 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5302054-004 comes with an extended multiyear warranty.



## MODEL 5302054-004

2.11 - 2.17 GHz

4 WATTS

LINEAR POWER RF AMPLIFIER

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	2.11 – 2.17 GHz
2	Saturated Output Power	4 Watts typical
3	Power Output @ 1dB Comp.	2 Watts min
4	Small Signal Gain	+40 dB min
5	Gain Flatness	± 0.75 dB max
6	IP <sub>3</sub>	+46 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 2 Watts
9	Spurious Signals	< -60 dBc typical @ 2 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	1.8 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b>Mechanical</b>		
16	Dimensions	4.0" x 2.8" x 0.8"
17	Weight	0.75 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
21	Operating 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.

## FEATURES

- ◊ Forward Power Monitor, 0 – 4 Volts
- ◊ Enable/Disable Control