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**MODEL 5303013**

**4.0 - 8.0 GHz**  
**0.6 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5303013 is a 0.6 Watt broadband amplifier that covers the 4.0 – 8.0 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 5303013 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification</u>
<b><u>Electrical</u></b>		
1	Frequency Range	4.0 – 8.0 GHz
2	Saturated Output Power	0.6 Watts typical
3	Power Output @ 1dB Comp.	0.5 Watts min
4	Small Signal Gain	+28 dB min
5	Gain Flatness	± 2.0 dB max
6	IP <sub>3</sub>	+37 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 1 dB comp.
9	Spurious Signals	> -60 dBc
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	1 Amps max
12	DC Input	13 – 15 VDC nominal
13	RF Input Overdrive	+10 dB over 1 dB Compression
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB Linear
<b><u>Mechanical</u></b>		
16	Dimensions	3.3" x 2.3" x 0.8"
17	Weight	1 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></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

**AVAILABLE OPTIONS**

- ◇ Gain Adjustment
- ◇ Automatic Level Control
- ◇ Extended Temperature Range
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

