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**MODEL 5302022**  
**800 - 1000 MHz**  
**12 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Band-specific High  
 Power RF Amplifier**

The 5302022 is a 12 Watt band-specific amplifier that covers the 800 – 1000 MHz 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 5302022 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification</u>
<b><u>Electrical</u></b>		
1	Frequency Range	800 – 1000 MHz
2	Instantaneous Bandwidth	60 MHz min
3	Saturated Output Power	12 Watts typical
4	Power Output @ 1dB Comp.	10 Watts min
5	Small Signal Gain	+45 dB min
6	Gain Flatness	± 1.0 dB max
7	IP <sub>3</sub>	+52 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 1 dB comp.
10	Spurious Signals	> -60 dBc
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	3.5 Amps max
13	DC Input	12 – 15 VDC nominal
14	RF Input Overdrive	+10 dB over 1 dB Compression
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB Linear
<b><u>Mechanical</u></b>		
17	Dimensions	6.0" x 2.75" x 0.8"
18	Weight	1 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
21	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

**AVAILABLE OPTIONS**

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

