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**MODEL 4125**  
**11.0-12.5 GHz**  
**50 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 4125 is a very high power broadband amplifier that covers the 11.0-12.5 GHz frequency range. This amplifier utilizes Class AB linear Gallium Nitride (GaN) power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, a wide dynamic range, and an industry leading RF performance.

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 4125 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	11.0-12.5 GHz
2	Power at P <sub>SAT</sub>	50 Watts Nominal
3	Small Signal Gain	+49 dB Minimum
4	Gain Flatness	± 2.5 dB Maximum
5	IP <sub>3</sub>	+51 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc Minimum
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	750 Watts Maximum
11	AC Input	90-240 VAC, 47-63 Hz
12	RF Input	0 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	Class AB
<b><u>Mechanical</u></b>		
15	Dimensions	5.25" x 19" x 21"(H x W x D)
16	Weight	47 lbs. Nominal
17	RF Connectors	Type-N Female Input Type-N Female Output
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport



0518 Approved By: \_\_\_\_\_ Date: \_\_\_\_\_