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MODEL 6013
1000-2000 MHz
4000 WATTS
RF POWER AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 6013 is a very high power broadband pulsed amplifier that covers the 1000-2000 MHz frequency range. This amplifier utilizes Solid State power devices that high gain, a wide dynamic range, with industry leading pulsed 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_{RF} amplifiers, the 6013 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	1000-2000 MHz
2	Power at P _{SAT} Nominal Minimum	4000 Watts Nominal 3800 Watts Minimum
3	Small Signal Gain	+65 dB Minimum
4	Gain Flatness	± 3.0 dB Maximum
5	Input VSWR	2:1 max
6	Harmonics	-20 dBc Nominal
7	Spurious Signals	< -60 dBc typical Nominal
8	Input/Output Impedance	50 Ohms Nominal
9	AC Input Power	5,000 Watts Maximum
10	AC Input	220 VAC ± 10%, 47-63Hz, Single Phase (Other AC inputs Available)
11	RF Input	0 dBm max
12	RF Input Signal Format	Pulse
13	Class of Operation	Class AB
<u>Pulse</u>		
14	Pulse Width	0.0-100 microseconds
15	Pulse Rate (PRF)	100 KHz Maximum
16	Duty Cycle	4% Maximum
17	RF Rise and Fall	30 ns Maximum
18	Delay	300 ns Maximum
19	Pulse Disable Isolation	80 dB Minimum
<u>Mechanical</u>		
20	Dimensions	31" x 24" x 26" (H x W x D) 79 x 61 x 67 (H x W x D) cm
21	Weight	339 lbs. / 154 kg
17	RF Connectors	Type-N Female Input Type 7/16 Female Output Type-N Female Fwd./Ref Sample
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
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

Specifications subject to change without notice

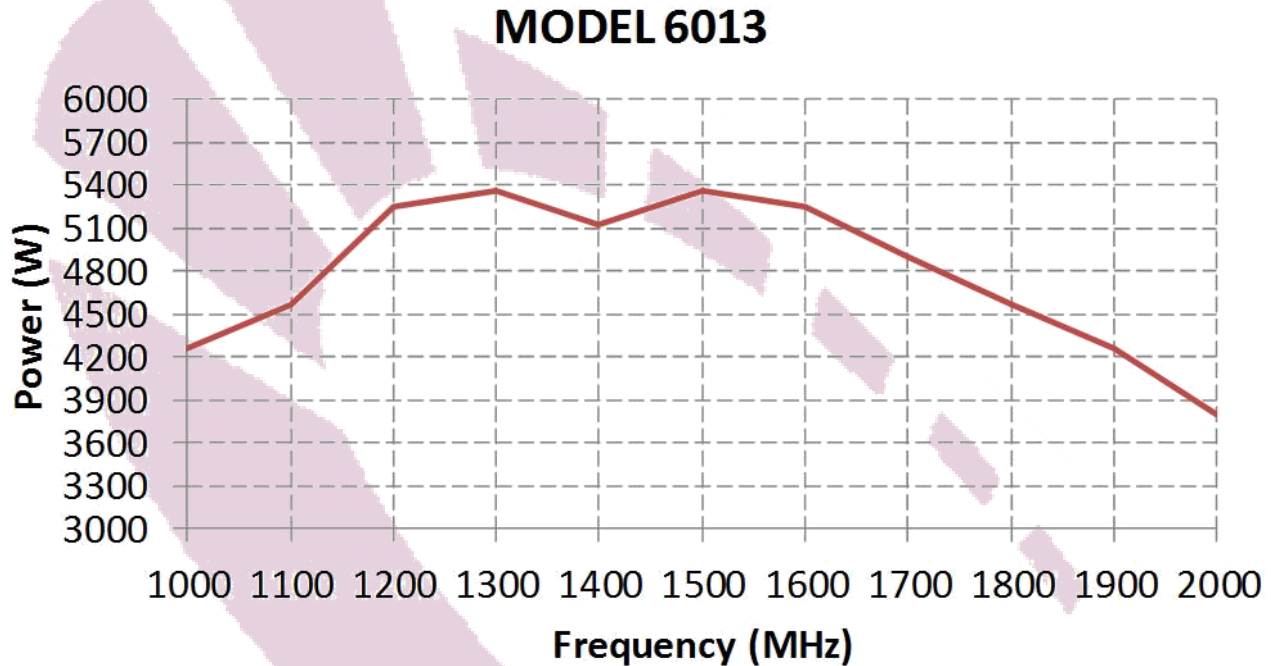




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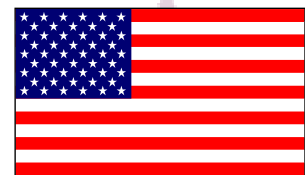
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TOUCH SCREEN FRONT PANEL CONTROLLER

- ◇ Forward Power Monitoring
- ◇ Reflected Power Monitoring
- ◇ Gain Control (20 dB dynamic range of adjustment)
- ◇ Fault Status
- ◇ Full Protection Of any VSWR Condition, Open or Short, into any Phase
- ◇ Remote Control Access via the Ethernet, RS-232, or IEEE-488 ports
- ◇ Integrated Automatic Leveling Control Function
- ◇ Standby/Enable Control
- ◇ Front Panel Display for easy viewing of System Status Locally
- ◇ Touch Screen Display for full local control
- ◇ Fault Protection against Thermal Overload
- ◇ Full Protection from Over Current/Over Voltage events



**PROUDLY MADE
IN THE USA**

RFPA SYSTEM OPTIONS

- ◇ Switched Filter Bank
- ◇ Input Power Requirements
- ◇ Ruggedized Version
- ◇ Cabinet Requirements
- ◇ Outdoor Version
- ◇ Sample Ports
- ◇ Racking Options
- ◇ **Consult Factory with Specific Requirements!**

