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**MODEL 4046-003**  
**1270 - 1310 MHz**  
**500 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 4046-002 is a 500 Watt band-specific amplifier that covers the 1270 – 1310 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 4046-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25 °C
<b>Electrical</b>		
1	Frequency Range	1270 – 1310 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	350 Watts min
4	Small Signal Gain	+58dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+63 dBm typical
7	Input/Output VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 350 Watts
9	Spurious Signals	> -60 dBc typical @ 350 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	10 dBm max.
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b>Mechanical</b>		
16	Dimensions	19" x 8.75" x 24"
17	Weight	100 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<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.

**CIRCUIT PROTECTIONS**

- ◇ Infinite Load VSWR with isolator
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

