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## **MODEL 9001RE-001**

1.35 - 1.85 GHz **100 WATTS** 

## Solid State **Broadband High Power RF Amplifier**

The 9001-001 is a 100 Watt broadband amplifier that covers the 1.35 - 1.85 GHz frequency range. This small lightweight and amplifier utilizes Class A/AB linear power devices that provide 3<sup>rd</sup> excellent an 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 high achieves efficiency with operation proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 9001-001 comes with an extended

	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1.35 – 1.85 GHz
2	Saturated Output Power	100 Watts typical
3	Power Output @ 1dB Comp.	80 Watts min
4	Small Signal Gain	+17 dB nominal
5	VVA Dynamic Range	10 dB nominal
6	Small Signal Gain Flatness	<u>+</u> 1.0 dB max
7	IP <sub>3</sub>	+59 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-40 dBc typical @ 80 Watts
10	Spurious Signals	> -60 dBc typical @ 80 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	800 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	+36 – 40 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<u>Mechanical</u>		
17	Dimensions	19" x 5.25" x 20"
18	Weight	48 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<u>Environmental</u>		
22	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	400 G Pk. Shock
Specifications subject to change without notice		

## **AMPLIFIER FEATURES**

- ♦ Thermal Overload Protection
- ♦ Infinite Load VSWR
- ♦ Quiet Mode (40 dB Isolation) On – TTL High, Off – TTL Low Via Rear panel, Male DB-9 connector
- ♦ RF Sampling Port (30 dB) Front Panel, Type-N connector
- ♦ Internal Safety Interlock
- ♦ Ruggedized for Shock and Vibration

## ORDERING MODEL

♦ RE - Rear connectors w/Control Option

