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MODEL 4022-001

2.7 - 2.9 GHz 100 WATTS LINEAR POWER RF AMPLIFIER

Solid State Band-Specific High Power RF Amplifier

The 4022-001 is a 100 Watt band-specific amplifier that covers the 2.7 - 2.9 GHz frequency range. This small lightweight amplifier and utilizes Class A/AB linear power devices that provide 3rd excellent order an 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_{RF} 4022-001 the amplifiers, comes with an extended multiyear warranty.

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	<u>Parameter</u>	Specification @ 25° C
Electrical		
1	Frequency Range	2.7 – 2.9 GHz
2	Saturated Output Power	100 Watts typical
3	Power Output @ 1dB Comp.	80 Watts min
4	Small Signal Gain	+51 dB min
5	Small Signal Gain Flatness	<u>+</u> 1.0 dB max
6	IP ₃	+59 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 80 Watts
9	Spurious Signals	< -60 dBc typical @ 80 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2000 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	A/AB
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 24"
17	Weight	90 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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
CNTPOL	Specifications subject to change without notice.	

FE Model Shown

CIRCUIT PROTECTIONS

- ♦ Thermal Overload
- ♦ Over Current
- ♦ Over Voltage
- ♦ VSWR protection

CIRCUIT CONTROL

- ♦ Standby (amplifier disable)
- ♦ Gain/power setting with 25dB range
- ♦ VSWR protection Reset

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CIRCUIT INDICATIONS

- ♦ Forward Power
- ♦ Reflected power
- ♦ VSWR Fault
- ♦ Temp Fault
- ♦ Gain Setting (VVA) percentage

ORDERING MODELS

- ♦ RE Rear Panel model with RS232, IEEE, & Ethernet
- ♦ FE Front Panel model with RS232, IEEE, & Ethernet

07/10 Approved By: Date: