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MODEL 4051

1000 - 1300 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4051 is a 1000 Watt band-specific amplifier that covers the 1000 – 1300 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd 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_{RF} amplifiers, the 4051 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

CIRCUIT INDICATIONS

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

	Parameter	Specification @ 25 °C
<u>Electrical</u>		
1	Frequency Range	1000-1300 MHz
2	Saturated Output Power	1000 Watts CW Minimum
3	Small Signal Gain	+61 dB min
4	Small Signal Gain Flatness	± 1.5 dB max
5	IP ₃	+68 dBm typical
6	Input/Output VSWR	2:1 max
7	Harmonics	-20 dBc maximum
8	Spurious Signals	< -60 dBc
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	3500 Watts max
11	AC Input (3Ø available upon request)	180-240 VAC, 1Ø
12	RF Input	0 dBm nominal
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
<u>Mechanical</u>		
15	Dimensions	19" x 14" x 26" (8U)
16	Weight	150 lb. max
17	Connectors	Type-N
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.



FE Model Shown

ORDERING MODELS

- ◇ RE - Rear connector model w/Controller and Ethernet, IEEE-488, RS-232
- ◇ FE - Front connector model w/Controller and Ethernet, IEEE-488, RS-232