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MODEL 4023-001

2.3 - 2.4 GHz

40 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4023 is a 40 Watt band-specific amplifier that covers the 2.3-2.4 GHz 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 4023 comes with an extended multiyear

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.3 – 2.4 GHz
2	Saturated Output Power	40 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Power Output @ CDMA*	7.5 Watts typical
5	Small Signal Gain	+45 dB min
6	Small Signal Gain Flatness	± 0.5 dB max
7	IP ₃	+56 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-40 dBc typical @ 30 Watts
10	Spurious Signals	< -60 dBc typical @ 30 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	100 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
Mechanical		
17	Dimensions	19" x 3.5" x 18"
18	Weight	26 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
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	Normal Truck Transport

Specifications subject to change without notice.

* CDMA Signal Format: Total composite waveform has a peak-to-average power ratio of 10.2dB.

CIRCUIT PROTECTIONS

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

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface **RE Model Shown**

