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MODEL 4003-010

2.025 - 2.120 GHz
120 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4003-010 is a 120 Watt band-specific amplifier that covers the 2.025 – 2.120 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 4003-010 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.025 – 2.120 GHz
2	Saturated Output Power	120 Watts typical
3	Power Output @ 1dB Comp.	100 Watts min
4	Small Signal Gain	+52 dB min
5	Small Signal Gain Flatness	± 0.75 dB max
6	IP ₃	+60 dBm typical
7	Input/Output VSWR	1.5:1
8	Noise Figure	10 dB typical
9	Harmonics	-20 dBc typical @ 100 Watts
10	Spurious Signals	< -60 dBc typical @ 100 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	600 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	+10 dBm max
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	19" x 5.25" x 20"
17	Weight	50 lb. max
18	Connectors	Type-N Female
19	Cooling	Internal Forced Air
Environmental		
20	Operating Temperature	-30° C to +50° C
21	Storage Temperature	-40° C to +70° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

INCLUDED FEATURES in CONTROL OPTION

- ◇ Power Adjustment
- ◇ Fwd/Ref RF Output Power Indicator
- ◇ RF Power Status/Fault
- ◇ Attenuation Range: 20 dB minimum
- ◇ Remote Control via RS-232 (DB-9 Female)

ORDERING MODELS

- ◇ RE - Rear Panel Connectors w/Control Option
- ◇ FE - Front Panel Connectors w/Control Option
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface



CIRCUIT PROTECTIONS

- ◇ Thermal Overload Shutdown
- ◇ Over Current / Over Voltage
- ◇ Infinite Load VSWR