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MODEL 4003-005

**1.93 - 1.99 GHz
20 WATTS CDMA
LINEAR POWER RF AMPLIFIER**

Solid State Band-specific High Power RF Amplifier

The 4003-005 is a 120 Watt band-specific amplifier that covers the 1.93 – 1.99 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 4003-005 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.93 – 1.99 GHz
2	CDMA Output Power	20 Watts (IS-95)
3	Small Signal Gain	+53 dB min
4	Small Signal Gain Flatness	± 0.75 dB max
5	IP ₃	+60 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 20 Watts
8	Spurious Signals	< -60 dBc typical @ 20 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	12 Amps max
11	DC Input	-48 VDC
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
Mechanical		
15	Dimensions	19" x 5.25" x 20"
16	Weight	48 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
Environmental		
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.

CIRCUIT PROTECTIONS

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

INCLUDED FEATURES

- ◇ TTL Fault for over temperature
- ◇ TTL Fault for over current
- ◇ Forward Power Monitor , 1 – 4 VDC out
- ◇ Enable/Disable control



Rev. B