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MODEL 5016-003

1.0 - 2.0 GHz
20 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5016-003 is a 20 Watt broadband amplifier that covers the 1.0 – 2.0 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 5016-003 comes with an extended multiyear warranty.



F Model Shown

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.0 – 2.0 GHz
2	Saturated Output Power	20 Watts min
3	Power Output @ 1dB Comp.	10 Watts min
4	Small Signal Gain	+30-35 dB
5	Small Signal Gain Flatness	± 1.0 dB max
6	IP ₃	+53 dBm typical
7	Input VSWR	2:1 max
8	Noise Figure	7dB Max
9	Isolation (With internal Isolator)	15 dB min
10	Harmonics	-20 dBc max @ 10 Watts
11	Spurious Signals	< -60 dBc max @ 10 Watts
12	Input/Output Impedance	50 Ohms nominal
13	AC Input Power	220 Watts max
14	AC Input	100 – 240 VAC, single phase
15	RF Input	+20 dBm max
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
Mechanical		
18	Dimensions	19" x 5.25" x 20"
19	Weight	38 Lbs.
20	Connectors	Type-N
21	Grounding	Chassis
22	Cooling	Internal Forced Air
Environmental		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

ORDERING MODELS

- ◇ R – Rear RF Connector model
- ◇ F – Front RF Connector model

“-003” SPECIAL FEATURES

- ◇ - Excellent Noise Figure performance at only 7dB maximum
- ◇ - Available in front or rear panel configuration only due to Noise Figure Specifications
- ◇ - Internal Isolator for full protection into any VSWR condition (Min Isolation 15dB)
- ◇ - Modified Small signal gain (30-35dB of gain)
- ◇ - High input Power handling capability; +20dBm for unlimited duration



Specifications subject to change without notice.



0613 Approved By: _____ Date: _____