5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5163A-003

3.0-4.3 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5163A-003 is a 50 Watt broadband amplifier that covers the 3.0 – 4.3 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 5163A-003 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	3.0-4.3 GHz
2	Saturated Output Power	50 Watts Minimum
	Power at P1dB	20 Watts Minimum
3	Small Signal Gain	+48 dB min
4	Small Signal Gain Flatness	± 4.0 dB max
5	IP_3	+54 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-30 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	800 Watts max
11	AC Input	100 – 240 VAC, single phase
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 3.5" x 24"
16	Weight	40 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

ORDERING MODELS

◊ R - Rear Panel Connectors
◊ F - Front Panel Connectors

SPECIAL FEATURES

◊ - Remote Enable/Disable
◊ - Remote Temperature Fault Indication
◊ - -30dBc Harmonics
◊ - Integrated RF Isolator for complete VSWR Protection

R Model Shown

0610 Approved By:_____Date: _____