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 4022-002

2.35-2.55 GHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 4022-002 is a 200 Watt band specific amplifier that covers the 2.35-2.55 GHz frequency range. This small and lightweight amplifier utilizes Class A 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 4022-002 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.35-2.55 GHz
2	P1dB Output Power	200 Watts Minimum
3	Small Signal Gain	+55 dB min
4	Power Flatness	± 1.0 dB max
5	IP_3	+59 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc Minimum
8	Spurious Signals	< -60 dBc Minimum
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	1800 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	+3 dBm max without damage
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A
Mechanical		
15	Dimensions	19" x 8.75" x 24"
16	Weight	93 Lbs.
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

FE Model Shown

ORDERING MODELS

- ◊ RE – Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◊ FE – Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◊ R – Rear RF Connector model
- ◊ F – Front RF Connector model

INTERNAL ISOLATOR FOR FULL VSWR OPERATION AND PROTECTION

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FRONT PANEL CONTROLLER FEATURES

◊ Forward Power Monitoring
◊ Reflected Power Monitoring
◊ Gain Control (Continuously Variable VVA 20dB)
◊ Fault Status
◊ Full Protection Of any VSWR Condition, Open or Short, into any Phase Angle
◊ Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
◊ Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, phase or input RF level
◊ Standby/Enable Control
◊ Front Panel Display for easy viewing of System Status Locally
◊ Keypad buttons for full local control

CIRCUIT CONTROL *(WITH FRONT PANEL CONTROLLER)*

◊ Standby (amplifier disable)
◊ Gain/power setting with 20dB range
◊ VSWR protection Reset
◊ ALC On/ Off

CIRCUIT INDICATIONS *(WITH FRONT PANEL CONTROLLER)*

◊ Forward Power
◊ Reflected power
◊ VSWR Fault
◊ Temp Fault
◊ Gain Setting (VVA) percentage

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage
◊ Open or Short VSWR Conditions *(With Front Panel Controller)*

RFPA SYSTEM OPTIONS

◊ Switched Filter Bank
◊ Input Power Requirements
◊ Ruggedized Version
◊ Cabinet Requirements
◊ Outdoor Version
◊ Sample Ports
◊ Racking Options
◊ Many More!
◊ ***Consult Factory with Specific Requirements***

ANAB ACCREDITED
Certified to ISO 9001:2008
TÜVRheinland Precisely Right.

Made in the U.S.A.

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