

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 5275

0.8 - 3.0 GHz 230 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5275 is a 230 Watt broadband amplifier that covers the 800 – 3000 MHz frequency range. This 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 this amplifier components, achieves efficiency high operation with proven reliability, Like all OPHIR_{RF} amplifiers, the 5275 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

Electrical 1 Frequency Range 0.8 – 3.0 GHz 2 Saturated Output Power 230 Watts typical 200 Watts minimum 3 Power out at 1dB compression 150 Watts nominal 4 Small Signal Gain +54 dB min 5 Power Flatness +/- 2.5 dB max 6 IP3 +60 dBm typical 7 Input VSWR 2:1 max 8 Harmonics -20 dBc typical @ linear power 9 Spurious Signals < -60 dBc typical @ linear power 10 Input/Output Impedance 50 Ohms nominal 11 AC Input Power 3000 Watts max 12 AC Input 180 – 264 VAC, single phase 13 RF Input +10 dBm max 14 RF Input Signal Format CW/AM/FM/PM/Pulse 15 Class of Operation A Mechanical 15 Dimensions 19" x 8.75" x 26" 16 Weight 80 lbs. 17 Connectors Type-N (RF Input/Output)
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17 Connectors Type-N (RF Input/Output)
Type-iv (ivi input/output)
18 Grounding Chassis
19 Cooling Internal Forced Air
<u>Environmental</u>
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

0113

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

♦ Rear RF Connector model

♦ F _ Front RF Connector model

Approved by: ______ Date: _____



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FRONT PANEL CONTROLLER FEATURES

- ♦ Forward Power Monitoring
- ♦ Reflected Power Monitoring
- ♦ Gain Control (Continuously Variable VVA 20dB)
- ♦ Fault Status
- \Diamond 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**



Date:

