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## MODEL 4043-005

**3 - 15 MHz**  
**1000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Band-specific High Power RF Amplifier

The 4043-005 is a 1000 Watt band-specific amplifier that covers the 3-15 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 4043-005 comes with an extended multiyear warranty.

	Parameter	Specification @ 25 °C
<b>Electrical</b>		
1	Frequency Range	3 – 15 MHz
2	Saturated Output Power	1000 Watts typical
3	Power Output @ 1dB Comp.	650 Watts min
5	Small Signal Gain	+60 dB min
6	Small Signal Gain Flatness	± 2.0 dB max
7	IP <sub>3</sub>	+64 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-15 dBc typical @ 650 Watts
10	Spurious Signals	< -60 dBc typical @ 650 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	3000 Watts max
13	AC Input	208 ± 10% VAC, 3- phase
14	RF Input	0 dBm max.
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
<b>Mechanical</b>		
17	Dimensions	19" x 8.75" x 20"
18	Weight	85 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b>Environmental</b>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

### CIRCUIT PROTECTIONS

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

### ORDERING MODELS

- ◇ RE - Rear Connector model w/Control Option
- ◇ FE - Front Connector model w/Control Option
- ◇ E - Control Option has Online and Standby Modes, Fwd/Rev Power Monitoring, Gain Control, ALC, Reflected Power Shutdown, IEEE-488, RS-232, and Ethernet communications

### Features: Chassis Mount Slides



FE Model Shown

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_