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## MODEL 4042-001

**2 - 30 MHz**  
**500 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 4042 is a 500 Watt band-specific amplifier that covers the 2 – 30 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 4042 comes with an extended multiyear

	Parameter	Specification @ 25 °C
<b><u>Electrical</u></b>		
1	Frequency Range	2 – 30 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	300 Watts min
5	Small Signal Gain	+57 dB min
6	Small Signal Gain Flatness	± 2.0 dB max
7	IP <sub>3</sub>	+61 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-15 dBc typical @ 300 Watts
10	Spurious Signals	< -60 dBc typical @ 300 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	1800 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	0 dBm max.
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
<b><u>Mechanical</u></b>		
17	Dimensions	19" x 7.0" x 20"
18	Weight	65 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
22	Rack Mountable Slides and Support Bracket	18" slides (37" wingspan)
<b><u>Environmental</u></b>		
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

Specifications subject to change without notice.

### CIRCUIT PROTECTIONS

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

### ORDERING MODELS

- ◇ RE - Rear Panel Connectors w/Control Option
- ◇ FE - Front Panel Connectors w/Control Option



FE Model Shown