MODEL 4042

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 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 4042 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS
◊ Thermal Overload
◊ Over Current
◊ Over Voltage

ORDERING MODELS
◊ R   - Rear Panel Connectors
◊ F   - Front Panel Connectors
◊ RE   - R model w/Control Option
◊ FE   - F model w/Control Option
◊ RT   - RE model w/Ethernet Interface
◊ FT   - FE model w/Ethernet Interface

	Parameter	Specification @ 25 ºC
Electrical		
1	Frequency Range	2 – 30 MHz
2	Saturated Output Power	500 Watts rated
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$_3$	+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
Mechanical		
17	Dimensions	19” x 7.0” x 20”
18	Weight	60 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
22	Operating Temperature	0º C to +50º 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.

FE Model Shown

Approved By: _____   Date: _____