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## MODEL 5037B

80 - 1000 MHz

500 WATTS

LINEAR POWER RF AMPLIFIER

### Solid State Broadband High Power RF Amplifier

The 5037B is a 500 Watt broadband amplifier that covers the 80 – 1000 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 5037 comes with an extended multiyear



FE Model Shown

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	300 Watts min
4	Small Signal Gain	+58 dB min
5	Gain Flatness	± 2.5 dB
6	IP <sub>3</sub>	+61 dBm
7	Input VSWR	2:1 max
8	Harmonics	-25 dBc typical
9	Spurious Signals	-60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	6000 Watts max
12	AC Input	186 – 264 VAC, three phase
13	Nominal RF Input	0 dBm
14	RF Input Overdrive	+13 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
<b>Mechanical</b>		
17	Dimensions* (W x H x D)	22.5" x 31" x 26"
18	Weight*	400 lb. max
19	Input/Output RF Connectors	Type-N , 7/16 DIN
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

\*Dimensions and weight include cabinet enclosure.

Specifications subject to change without notice.

### CIRCUIT PROTECTIONS

- ◇ Thermal Shutdown
- ◇ Built-in Current Monitoring
- ◇ Over Voltage
- ◇ High VSWR Alarm
- ◇ RF Input Overdrive Protection

### ORDERING MODELS

- ◇ RE - Rear panel RF connectors with control Option
- ◇ FE - Front panel RF connectors with control option
- ◇ RT - RE model with Ethernet connectivity interface
- ◇ FT - FE model with Ethernet connectivity interface

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