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## **MODEL 5141**

0.7 - 3.0 GHz 15 WATTS LINEAR POWER RF AMPLIFIER

## Solid State Broadband High Power RF Amplifier

The 5141 is a 15 Watt broadband amplifier that covers the 0.7 - 3.0 GHz 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 5141 comes with an extended multiyear warranty.

## **CIRCUIT PROTECTIONS**

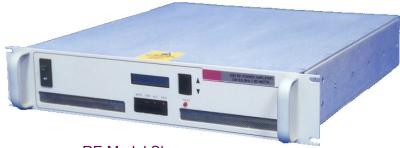
- Or Thermal Overload
- Over Current
- Over Voltage

## **ORDERING MODELS**

- ◊ 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° C
<b>Electrical</b>		
1	Frequency Range	0.7 – 3.0 GHz
2	Saturated Output Power	15 Watts typical
3	Power Output @ 1dB Comp.	12 Watts min
4	Small Signal Gain	+43 dB min
5	Small Signal Gain Flatness	<u>+</u> 2.0 dB max
6	IP <sub>3</sub>	+51 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 12 Watts
9	Spurious Signals	> -60 dBc typical @ 12 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	200 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	19" x 3.5" x 18"
17	Weight	30 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



**RE Model Shown** 

Approved By:

Date: