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MODEL 5182T

2.0 - 4.0 GHz

30 WATTS

**LINEAR POWER RF AMPLIFIER
 WITH ETHERNET INTERFACE**

Solid State Broadband High Power RF Amplifier

The 5182 is a 30 Watt broadband amplifier that covers the 2.0 – 4.0 GHz 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 5182 comes with an extended multiyear

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.0 – 4.0 GHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	24 Watts min
4	Small Signal Gain	+46 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 24 Watts
9	Spurious Signals	> -60 dBc typical @ 24 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	350 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 5.25" x 20"
17	Weight	45 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.

CIRCUIT PROTECTIONS

Thermal Overload
 Over Current
 Over Voltage

ORDERING MODELS

RT - RE model w/Ethernet Interface
 FT - FE model w/Ethernet Interface



RT Model Shown