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MODEL 5312

0.15 - 200 MHz
25 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5312 is a 25 Watt broadband amplifier that covers the 0.15 – 200 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 5312 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.15 – 200 MHz
2	Saturated Output Power	25 Watts typical
3	Power Output @ 1dB Comp.	15 Watts min
4	Small Signal Gain	+44 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP_3	+48 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	300 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+3 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	15.5” x 4.75” x 10”
17	Weight	20 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0º C to +50º 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

02/12 Approved By: _____ Date: _____