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MODEL 5182-300

3.5 - 4.0 GHz
30 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5182-300 is a 30 Watt broadband amplifier that covers the 3.5 – 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 5182-300 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Output Circulator Installed

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	3.5 – 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	DC Blanking TTL High = on TTL Low = off	300µS max (On/Off via Rear BNC Connector)
7	Blanking Isolation	40dB min
8	IP ₃	+54 dBm typical
9	Input VSWR	2.0:1 max
10	Output VSWR	1.5:1 max
11	Harmonics	-40 dBc max @ 24 Watts
12	Spurious Signals	< -60 dBc typical @ 24 Watts
13	Noise Figure	8 dB max
14	Input/Output Impedance	50 Ohms nominal
15	AC Input Power	350 Watts max
	AC Input	100 – 240 VAC, single phase
	RF Input	+10 dBm max
	RF Input Signal Format	CW/AM/FM/PM/Pulse
	Class of Operation	A/AB
Mechanical		
16	Dimensions	19" x 5.25" x 20"
17	Weight	35 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