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MODEL 5006-008

**300-400 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5006-008 is a 500 Watt broadband amplifier that covers the 300-400 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 5006-008 comes with an extended multiyear warranty.

Specifications subject to change without notice.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	300-400 MHz
2	Saturated Output Power	500 Watts Minimum
3	Power Output @ 1dB Comp.	300 Watts Minimum
4	Small Signal Gain	+58 dB min
5	Gain Flatness	± 1.0 dB
6	IP ₃	+61 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 300 Watts
9	Spurious Signals	< -60 dBc typical @ 300 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts max
12	AC Input	200 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 20"
17	Weight	80 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

CIRCUIT INDICATIONS

- ◇ Temp Fault

ORDERING MODELS

- ◇ R - Rear RF Connector Model
- ◇ F - Front Connector Model



F Model Shown

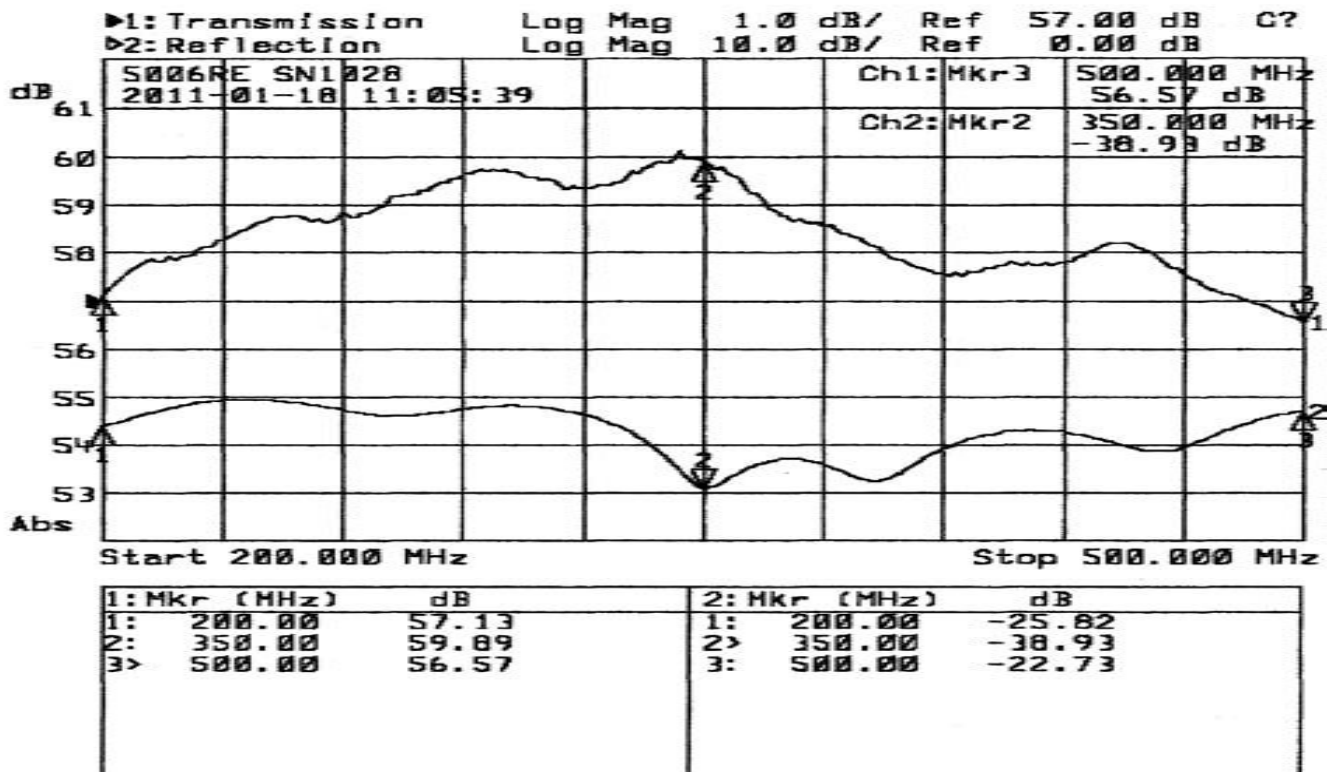


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5006-008 Typical P_{SAT} Power (Input 0dBm)



5006-008 Typical Pulse Performance (Measured at 400MHz, 10% Duty Cycle)

