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MODEL 5193-003

**2 - 6 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5193-003 is a 50 Watt broadband amplifier that covers the 2 – 6 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.

CIRCUIT PROTECTIONS

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

CIRCUIT INDICATIONS (E & D models)

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model with Ethernet, IEEE488 and RS232
- ◇ FE - F model with Ethernet, IEEE488 and RS232
- ◇ RD - R model with Touch Screen LCD Display, Ethernet, IEEE488 and RS232
- ◇ FD - F model with Touch Screen LCD Display, Ethernet, IEEE488 and RS232

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2 – 6 GHz
2	Saturated Output Power	50 Watts Minimum
	Power at 1dB Compression	40 Watts Minimum*
3	Small Signal Gain	+50 dB min
4	Power Flatness	± 3.0 dB max
5	IP ₃	+54 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	800 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	0 dBm
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
Mechanical		
15	Dimensions	19" x 5.25" x 20"
16	Weight	48 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
Environmental		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice



F Model Shown

CIRCUIT CONTROL (E & D models)

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

*1dB Compression may be 0.5-0.75dB Lower with the RE, FE, RD, and FD Models

0709 Approved By: _____ Date: _____