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MODEL 5166
0.8 - 4.2 GHz
500 WATTS
BROADBAND HIGH POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5166 is a 500 Watt broadband amplifier that covers the 0.8 – 4.2 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.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	0.8 – 4.2 GHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	200 Watts min
4	Small Signal Gain	+58 dB min
5	Small Signal Gain Flatness	+/- 3 dB max with no ALC +/- 1 dB max with internal leveling
6	IP ₃	+63 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 500 Watts
9	Spurious Signals	> -60 dBc typical @ 500 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	6000 Watts max
12	AC Input	186 – 264 VAC, three phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	36" x 24" x 30" (H x W x D)
17	Weight	350 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
- ◇ VSWR protection

ORDERING MODELS

- ◇ RE - Rear Panel model with RS232 & IEEE
- ◇ FE - Front Panel model with RS232 & IEEE
- ◇ RT - Rear Panel model with Ethernet Interface
- ◇ FT - Front Panel model with Ethernet Interface