

## MODEL 5166-001

0.7-3.6 GHz

350 WATTS

**BROADBAND HIGH POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5166-001 is a 350 Watt broadband amplifier that covers the 0.7-3.6 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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 CONTROL

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

#### CIRCUIT INDICATIONS

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

#### ORDERING MODELS

- ◇ RE - R model with Ethernet, IEEE488 and RS232
- ◇ FE - F model with Ethernet, IEEE488 and RS232

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	0.7-3.6 GHz
2	Saturated Output Power	350 Watts typical
3	Small Signal Gain	+58 dB min
4	Small Signal Gain Flatness	+/- 3 dB max with no ALC +/- 1 dB max with internal leveling
5	IP <sub>3</sub>	+63 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 500 Watts
8	Spurious Signals	> -60 dBc typical @ 500 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	6000 Watts max
11	AC Input	186 – 264 VAC, three phase
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
<b>Mechanical</b>		
15	Dimensions	36" x 24" x 30" (H x W x D)
16	Weight	350 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<b>Environmental</b>		
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



**FE MODEL**