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MODEL 4046-007

**1270-1310 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Band-specific High Power RF Amplifier

The 4046-007 is a 500 Watt band-specific amplifier that covers the 1270-1310 MHz frequency range. This 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
- ◇ Infinite Load VSWR using an Isolator

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
<u>Electrical</u>		
1	Frequency Range	1270-1310 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	350 Watts min
4	Small Signal Gain	+57 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP ₃	+65 dBm typical
7	Input/Output VSWR	2:1 max
8	Harmonics	-20 dBc min @ 350 Watts
9	Spurious Signals	< -60 dBc
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2500 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm typical +10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 24"
17	Weight	100 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

Specifications subject to change without notice.



RE Model Shown