

MODEL 4046-010

1270-1310 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4046-010 is a 1000 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 Internal Isolator

Data subject to change without notice.

ORDERING MODELS

- ◇ R - Rear RF Connector model
- ◇ F - Front RF Connector model
- ◇ RE R option with Controller
- ◇ FE F option with Controller



FE Model Shown

	Parameter	Specification @ 25 °C
<u>Electrical</u>		
1	Frequency Range	1270-1310 MHz
2	Saturated Output Power	1000 Watts Minimum
3	Small Signal Gain	+61 dB min
4	Small Signal Gain Flatness	± 1.5 dB max
5	IP ₃	+65 dBm typical
6	Input/Output VSWR	2:1 max
7	Harmonics	-20 dBc min @ 630 Watts
8	Spurious Signals	< -60 dBc
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	1000 Watts max
11	AC Input	110-240VAC, 1Ø
12	RF Input	0 dBm typical +10 dBm max
13	RF Input Signal Format	Pulse
14	Class of Operation	A/AB
<u>Pulse and Blanking Characteristics</u>		
15	Pulse Conditions	1-100uSec
16	Duty Cycle	1.0%
17	Pulse Rise and Fall	50nSec Max
18	Blanking Control Connector	Rear panel Mounted BNC Connector
19	Blanking Isolation	30dB Minimum
20	Blanking Rise and Fall Time	1uSec Rise and Fall Time Maximum
21	Blanking polarity	5V (TTL High) Active 0V (TTL Lo) Blanked
<u>Mechanical</u>		
22	Dimensions	19" x 5.25" x 20" (3U)
23	Weight	43 lb. max
24	Connectors	Type-N
25	Grounding	Chassis
26	Cooling	Internal Forced Air
<u>Environmental</u>		
27	Operating Temperature	0° C to +50° C
28	Operating Humidity	95% Non-condensing
29	Operating Altitude	Up to 10,000' Above Sea Level
30	Shock and Vibration	Normal Truck Transport