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MODEL 4046-002

1270 - 1310 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4046-002 is a 500 Watt band-specific amplifier that covers the 1270 – 1310 MHz 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	1270 – 1310 MHz
2	Saturated Output Power	500 Watts min
3	Power Output @ 1dB Comp.	250 Watts typical
4	Small Signal Gain	+58 dB min
5	Small Signal Gain Flatness	± 1.0 dB max
6	IP ₃	+63 dBm typical
7	Input/Output VSWR	2:1 max
8	Harmonics	-30 dBc typical @ 500 Watts
9	Spurious Signals	< -60 dBc typical @ 500 Watts
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 max.
<u>Mechanical</u>		
14	Dimensions	19" x 8.75" x 24"
15	Weight	100 lb. max
16	Connectors	Type-N
17	Grounding	Chassis
18	Cooling	Internal Forced Air
<u>Environmental</u>		
19	Operating Temperature	0° C to +50° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	Normal Truck Transport

CIRCUIT PROTECTIONS

- ◇ Infinite Load VSWR using an Output Isolator
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option

Specifications subject to change without notice

