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## MODEL 4046-013

**1280-1320 MHz**  
**400 WATTS (P-1dB)**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Band-specific High Power RF Amplifier

The 4046-013 is a 400 Watt, P1dB compression, band-specific amplifier that covers 1280-1320 MHz frequency range. This 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.

	Parameter	Specification @ 25 °C
<b>Electrical</b>		
1	Frequency Range	1280-1320 MHz
2	Power Output @ 1dB Comp.	400 Watts min at 1300MHz
3	Small Signal Gain	+57 dB min
4	Small Signal Gain Flatness	± 0.75 dB max
5	IP <sub>3</sub>	+65 dBm typical
6	Input/Output VSWR	2:1 max
7	Harmonics	-20 dBc min @ 400 Watts
8	Spurious Signals	< -60 dBc Typ.
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	2500 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	0 dBm typical +10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
15	Standby/ On-Off via BNC Con. on Rear Panel	TTL High = On TTL Low = Off
<b>Mechanical</b>		
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
<b>Environmental</b>		
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.

### CIRCUIT PROTECTIONS

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

### ORDERING MODELS

- ◇ R - Rear Connectors
- ◇ F - Front Connectors



RE Model Shown