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**MODEL 4046-004**  
**1280 - 1320 MHz**  
**200 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 4046-004 is a 200 Watt band-specific amplifier that covers the 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.	200 Watts min
3	Small Signal Gain	+54 dB min
4	Gain Flatness	± 1.0 dB max
5	Phase Variation @ 1.3GHz	Less than 3 deg C from 20W to 200W
6	Input/Output VSWR	1.5:1/2:1 max
7	Harmonics	-40 dBc min
8	Spurious Signals	< -60 dBc
9	Noise Figure	5dB max
10	Blanking Pulse	TTL Gate to Inhibit
11	Blanking Isolation	60dB
11	VSWR Protection	Protected against any mismatch by means of Isolator
12	RF Input	0 dBm typical +10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	AC Input Power	1800 Watts max
15	AC Input	100 – 240 VAC, single phase
<b>Mechanical</b>		
16	Dimensions	19" x 8.75" x 24"
17	Weight	100 lb. max
18	Connectors	SMA for RF input Type-N for RF output BNC for Blanking
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

**CIRCUIT PROTECTIONS**

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

Will be changed to SMA

