



5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)577-9887
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 4046-009

1290-1310 MHz
445 WATTS AT P1dB
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4046-009 is a 445 Watt band-specific amplifier that covers the 1290-1310 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

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
Electrical		
1	Frequency Range	1290-1310 MHz
3	Power Output @ 1dB Comp.	445 Watts min
4	Small Signal Gain	+57 dB min
5	Small Signal Gain Flatness	± 0.5 dB max
6	IP ₃	+65 dBm typical
7	Input/Output VSWR	2:1 max
8	Harmonics	-20 dBc min @ 445 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
Mechanical		
16	Dimensions	19" x 8.75" x 26"
17	Weight	100 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
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

CUSTOMER SUPPLIED EXTERNAL ISOLATOR FOR ADDED VSWR PROTECTION

Approved By: _____ Date: _____