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## MODEL 4039R

**292 - 320 MHz**  
**250 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Power RF Amplifier

The 4039R is a 250 Watt RF amplifier that covers the 292 – 320 MHz frequency range. This small and light-weight 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. Like all OPHIR<sub>RF</sub> amplifiers, the 4039R comes with an extended multi-year warranty.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	292 – 320 MHz
2	Saturated Output Power	250 Watts typical
3	Power Output @ 1dB Comp.	200 Watts min
4	Gain (Keyed)	+53 dB min
5	Gain (Un-Keyed)	0 dB max
6	TX KEY line	Ground = Keyed
7	TX Rise (Turn-on) Time**	< 320 us
8	TX Fall (Turn-off) Time**	< 320 us
9	Noise Figure	≤ 10 dB typical
10	Input VSWR	2:1 max
11	Harmonics	-20 dBc typical @ 200 Watts
12	Spurious Signals	< -60 dBc typical @ 200 Watts
13	Input/Output Impedance	50 Ohms nominal
14	AC Input	100 – 240 VAC, single phase
15	RF Input	0 dBm
16	Class of Operation	AB
<b><u>Mechanical</u></b>		
17	Dimensions	19" x 5.25" x 20"
18	Weight	44 Lbs
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

\*\*= relative to keyline, to within 1 dB of final output power level

### CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

### INCLUDED FEATURES

- ◇ Transmit key indicator LED
- ◇ 20 dB Variable Gain Control (Front)