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MODEL 4039R-002

292 - 320 MHz

250 WATTS

LINEAR POWER RF AMPLIFIER

Solid State High Power RF Amplifier

The 4039R-002 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 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

INCLUDED FEATURES

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

	Parameter	Specification @ 25° C
Electrical		
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	Off and Unkeyed Output Level*	<-73 dBm
8	Isolation	> 60 dB w/ 0dBm @ full gain
9	TX Rise (Turn-on) Time**	< 100µs Typical 150µs Max
10	TX Fall (Turn-off) Time**	< 200µs Typical, 320µs Max
11	Noise Figure	10 dB max
12	Input VSWR	2:1 max
13	Harmonics	-20 dBc typical @ 200 Watts
14	Spurious Signals	< -60 dBc typical @ 200 Watts < -55 dBc typical @ 250 Watts
15	Input/Output Impedance	50 Ohms nominal
16	AC Input Power	1000 Watts Max
17	AC Input	100 – 240 VAC, single phase
18	RF Input	0 dBm nominal
19	Maximum RF Input	+13dBm
20	Class of Operation	AB
Mechanical		
21	Dimensions	19" x 5.25" x 20"
22	Weight	40 lb. max
23	Connectors	Type-N
24	Grounding	Chassis
25	Cooling	Internal Forced Air
Environmental		
26	Operating Temperature	0° C to +50° C
27	Operating Humidity	95% Non-condensing
28	Operating Altitude	Up to 15,000' Above Sea Level
29	Shock and Vibration	MIL-STD-810F

*=When unkeyed, and no RF input, from 225 - 400MHz for any 1KHz bandwidth

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