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MODEL 4010-002

**800 - 1000MHz
 300 to 450 WATTS
 LINEAR POWER RF AMPLIFIER**

Solid State Band-specific High Power RF Amplifier

The 4010-002 is a 300/450 Watt band-specific amplifier that covers the 800-1000 MHz frequency range. This small and lightweight 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
- ◇ VSWR Protection

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	800 – 1000 MHz
2	Saturated Power Output 800-900MHz & 960-1000MHz Saturated Power Output 900-960MHz	300 Watts min 450 Watts min
3	P1dB Power Output 800-900MHz & 960-1000MHz P1dB Power Output 900-960MHz	150 Watts min 250 Watts min
4	Small Signal Gain	+57 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP ₃	+61 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ P1dB
9	Spurious Signals	< -60 dBc @ P1dB
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1600 Watts max
12	AC Input	180 – 265 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 20"
17	Weight	80 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface

