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## MODEL 5040-003

**20 - 1000 MHz**  
**80 WATTS**

### Solid State Broadband High Power RF Amplifier

The 5040-003 is an 80 Watt broadband amplifier that covers the 20 – 1000 MHz frequency range. This small and lightweight 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.

The 5040-003 comes with a three year warranty.

	Parameter	Specifications
<b><u>Electrical</u></b>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	80 Watts typical
3	Power Output @ 1dB Comp.	65 Watts min
4	Small Signal Gain	+50 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP <sub>3</sub>	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 65 Watts
9	Spurious Signals	> -60 dBc typical @ 65 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1000 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b><u>Mechanical</u></b>		
16	Dimensions	19" x 7.0" x 20"
17	Weight	45 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
21	Baseplate Temperature	-10° C to +60° 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.

### CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ High VSWR

### ORDERING MODELS

- ◇ RT - Rear RF Connectors with Ethernet Interface
- ◇ FT - Front RF Connectors with Ethernet Interface

