OPHIR RF

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MODEL 5041-003

20 - 1000 MHz
120 WATTS

Solid State Broadband High Power RF Amplifier

The 5041-003 is a 120 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 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. Like all OPHIR$_{RF}$ amplifiers, the 5041-003 comes with an extended

	Parameter	Specification @ 25º C
Electrical		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	120 Watts min
3	Power Output @ 1dB Comp.	80 Watts min
4	Small Signal Gain	+53 dB min
5	Small Signal Gain Flatness	$\pm$ 2.0 dB max
6	IP$_3$	+55 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 75 Watts
9	Spurious Signals	> -60 dBc typical @ 75 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1800 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
Mechanical		
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
Environmental		
21	Operating Temperature	0º C to +50º 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

ORDERING MODELS
◊ R   - Rear Panel Connectors
◊ F   - Front Panel Connectors
◊ RE   - R model w/Control Option
◊ FE   - F model w/Control Option
◊ RT   - RE model w/Ethernet Interface
◊ FT   - FE model w/Ethernet Interface

Note: Control Option will degrade power specifications by up to 0.6 dB.

FE Model Shown