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MODEL 4043FE-003

2 - 30 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4043FE-003 is a 1000 Watt band-specific amplifier that covers the 2 – 30 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 4043FE-003 comes with an extended multiyear warranty.

	Parameter	Specification @ 25 °C
Electrical		
1	Frequency Range	2 – 30 MHz
2	Saturated Output Power	1000 Watts typical
3	Rated Output Power	500 Watts min
4	Small Signal Gain	+47 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP ₃	+63 dBm typical
7	Harmonics @ Rated Power, 500 Watts	< -10 dBc for in-band range < -20 dBc for out-of-band range
8	Spurious Signals	< -60 dBc @ 500 Watts
9	Input/Output VSWR	3:1 nominal
10	Load VSWR @ Rated Power	Infinite phase and amplitude
11	Input/Output Impedance	50 Ohms nominal
12	AC Input @ Rated Power AC Input @ Saturated Power	1.6 KW typ 3 KW max
13	AC Input	208 ± 10% VAC, single phase, 47 to 63 Hz (400 Hz)
14	RF Input	+10 dBm for Rated Power
15	RF Input Overdrive	+13 dBm max
16	Class of Operation	AB
Mechanical		
17	Dimensions	19" x 8.75" x 20"
18	Weight	80 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
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	See DWG NO. 2062AS167

CIRCUIT PROTECTIONS

- ◇ Thermal Overload @ 85 °C
- ◇ Over Current
- ◇ Over Voltage

FEATURES

- ◇ Output Low Pass Filter
- ◇ IEEE – 488
- ◇ 10 dB Input Attenuator

