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MODEL 4043-055

2 - 30 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4043-055 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 4043-055 comes with an extended multiyear warranty.

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset

CIRCUIT INDICATIONS

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

ORDERING MODELS

- ◇ RE - Rear Panel model with RS232, IEEE, & Ethernet
- ◇ FE - Front Panel model with RS232, IEEE, & Ethernet

	Parameter	Specification @ 25 °C
Electrical		
1	Frequency Range	2 – 30 MHz
2	Saturated Output Power	1000 Watts typical
3	Power Output @ 1dB Comp.	600 Watts min
5	Small Signal Gain	+60 dB min
6	Small Signal Gain Flatness	± 2.0 dB max
7	IP ₃	+64 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-15 dBc typical @ 600 Watts
10	Spurious Signals	< -60 dBc typical @ 600 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	3000 Watts max
13	AC Input	208 ± 10% VAC, single phase
14	RF Input	0 dBm max.
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
21	Forward Power RF Sample Port	Forward Power (-65 dB below Power)
Mechanical		
17	Dimensions	19" x 8.75" x 20"
18	Weight	85 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	Normal Truck Transport

Specifications subject to change without notice.



-055 OPTION:

- ◇ Forward Power RF Sample Port
- ◇ Output Sample -65.0 +/- 0.5dB