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2.6 - 2.7 GHz **100 WATTS** LINEAR POWER RF AMPLIFIER

MODEL 4083

Solid State Band-specific High Power RF Amplifier

The 4083 is a 100 Watt band-specific amplifier that covers the 2.6 - 2.7 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide 3rd order excellent an 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 with operation proven reliability. Like all OPHIR_{RF} amplifiers, the 4083 comes with an extended multivear warranty.

CIRCUIT CONTROL

- ♦ Standby (amplifier disable)
- ♦ Gain/power setting with 25dB range
- ♦ VSWR protection Reset
- ♦ ALC On/ Off

CIRCUIT INDICATIONS

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

| | <u>Parameter</u> | Specification @ 25° C |
|----------------------|----------------------------|-------------------------------|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 2.6 – 2.7 GHz |
| 2 | Saturated Output Power | 100 Watts Minimum |
| 3 | Power Output @ 1dB Comp. | 75 Watts Minimum |
| 4 | Small Signal Gain | +51 dB min |
| 5 | Small Signal Gain Flatness | <u>+</u> 1.0 dB max |
| 6 | IP ₃ | +59 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 | 1000 Watts max |
| 12 | AC Input | 100 – 240 VAC, single phase |
| 13 | RF Input | +10 dBm max |
| 14 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 15 | Class of Operation | A/AB |
| <u>Mechanical</u> | | |
| 16 | Dimensions | 19" x 7.0" x 20" |
| 17 | Weight | 50 lb. max |
| 18 | RF Connectors | Type-N |
| 19 | Grounding | Chassis |
| 20 | Cooling | Internal Forced Air |
| Environmental | | |
| 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 |
| | | |

CIRCUIT PROTECTIONS

Specifications subject to change without notice.

- ♦ Thermal Overload
- ♦ Over Current
- ♦ Over Voltage



RE Model Shown

ORDERING MODELS

- ♦ RE - R model with Ethernet, IEEE488 and RS232
- ♦ FE - F model with Ethernet, IEEE488 and RS232