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MODEL 4027
1.8 - 2.0 GHz
240 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Band-specific High
 Power RF Amplifier**

The 4027 is a 240 Watt band-specific amplifier that covers the 1.8 – 2.0 GHz 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 4027 comes with an extended multiyear warranty.

| | Parameter | Specification @ 25° C |
|-----------------------------|----------------------------|-------------------------------|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 1.8 – 2.0 GHz |
| 2 | Saturated Output Power | 240 Watts typical |
| 3 | Power Output @ 1dB Comp. | 200 Watts min |
| 4 | Power Output CDMA (IS-95) | 40 Watts typical |
| 5 | Small Signal Gain | +55 dB min |
| 6 | Small Signal Gain Flatness | ± 0.75 dB max |
| 7 | IP ₃ | +63 dBm typical |
| 8 | Input VSWR | 2:1 max |
| 9 | Harmonics | -20 dBc typical @ 200 Watts |
| 10 | Spurious Signals | < -60 dBc typical @ 200 Wats |
| 11 | Input/Output Impedance | 50 Ohms nominal |
| 12 | AC Input Power | 2000 Watts max |
| 13 | AC Input | 200 – 240 VAC, single phase |
| 14 | RF Input | +10 dBm max |
| 15 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 16 | Class of Operation | A/AB |
| <u>Mechanical</u> | | |
| 17 | Dimensions | 19" x 8.75" x 20" |
| 18 | Weight | 60 lb. max |
| 19 | Connectors | Type-N |
| 20 | Grounding | Chassis |
| 21 | Cooling | Internal Forced Air |
| <u>Environmental</u> | | |
| 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.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload

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



FE Model Shown