# MODEL 5077-002

## 440 - 900 MHz
## 40 WATTS
## LINEAR POWER RF AMPLIFIER

## Solid State Broadband High Power RF Amplifier

The 5077-002 is a 40 Watt broadband amplifier that covers the 440 – 900 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3$^{rd}$ 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 5077-002 comes with an extended multiyear warranty.

| | Parameter | Specification @ 25° C |
|---|---|---|
| **Electrical** | | |
| 1 | Frequency Range | 440 – 900 MHz |
| 2 | Saturated Output Power | 40 Watts typical |
| 3 | Power Output @ 1dB Comp. | 25 Watts min |
| 4 | Small Signal Gain | +47 dB min |
| 5 | Small Signal Gain Flatness | $\pm$ 1.5 dB max |
| 6 | IP$_3$ | +50 dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -20 dBc typical @ 25 Watts |
| 9 | Spurious Signals | > -60 dBc typical @ 25 Watts |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | AC Input Power | 200 Watts max |
| 12 | AC Input | 100 – 240 VAC, single phase |
| 13 | RF Input | 0 dBm |
| 14 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 15 | Class of Operation | AB |
| **Mechanical** | | |
| 16 | Dimensions | 19" x 3.5" x 18" |
| 17 | Weight | 30 lb. max |
| 18 | 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 |

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



RE Model Shown