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MODEL 5389
2.0-6.0 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF
 Amplifier**

The 5389 is a 50 Watt broadband amplifier that covers the 700-6000 MHz frequency range. This amplifier utilizes Class A 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 5389 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

| | <u>Parameter</u> | <u>Specification @ 25° C</u> |
|-----------------------------|------------------------|-------------------------------|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 2.0-6.0 GHz |
| 2 | Saturated Output Power | 50 Watts Nominal |
| 3 | Power at P1dB | 30 Watts Minimum |
| 4 | Small Signal Gain | +48dB Minimum |
| 5 | Gain Flatness | ± 5.0dB Maximum |
| 6 | IP ₃ | +52dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -20 dBc min @ 30W |
| 9 | Spurious Signals | < -60 dBc typ @ 30W |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | AC Input Power | 800 Watts Maximum |
| 12 | AC Input | 100 – 240 VAC, single phase |
| 13 | RF Input | 0 dBm max |
| 14 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 15 | Class of Operation | Class A |
| <u>Mechanical</u> | | |
| 16 | Dimensions (WxHxD) | 15.5" x 4.75" x 10" |
| 17 | Weight | 55 Lbs. |
| 18 | RF Connectors | Type-N |
| 19 | Grounding | Chassis |
| 20 | Cooling | Internal Forced Air |
| <u>Environmental</u> | | |
| 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

