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| Model# | 5039 |
| FREQUENCY RESPONSE | 20 - 1000 MHz (Minimum) |
| POWER OUTPUT | CW: 20 Watts (Typical) @ 1dB comp: 13 Watts (Minimum) |
| THIRD ORDER INTERCEPT POINT | +48 dBm (Typical) |
| SMALL SIGNAL | Gain: 46 dB (Minimum) Gain Flatness: ±1.5 dB (Maximum) |
| INPUT VSWR | 2:1 (Maximum) |
| AC INPUT POWER | 160 Watts (Maximum) |
| PHYSICAL CHARACTERISTICS | Dimensions: 19" x 3.5" x 18" (Maximum) Weight: 26lb. (Maximum) |
| FEATURES | Wide frequency band Built-in power supply Universal AC input voltage Low distortion Small and lightweight Built-in cooling system |
| APPLICATIONS | TWT replacement Lab and equipment testing Antenna ranges RFI/EMI test Satellite ground station Laser modulation ECM/EW systems |
| ELECTRICAL CHARACTERISTICS | Input/Output Impedance: 50 Ohm AC Input: 100 or 240 VAC, single phase RF Input Overdrive: +10 dB over 1dB comp. RF Input Signal Format: CW/AM/FM/PM/Pulse Harmonics: -20 dBc typical @ 1 dB comp. Spurious Signals: > -60 dBc Class of Operation: AB linear Cooling: Internal forced-air |
| ENVIRONMENTAL CHARACTERISTICS | Operating Temperature: 0°C to +40°C Non-operating Temperature: -40°C to +85°C Humidity: 95% relative without condensation Altitude: 10,000 feet Shock and Vibration: Normal truck transport |
| CIRCUIT PROTECTIONS | |

Load VSWR Mismatch Tolerance (10:1 - no damage)
RF Input Overdrive
Thermal Overload



20 - 1000 MHz 20 WATTS HIGH POWER RF AMPLIFIER

DESCRIPTION:

Designed for wideband High Power applications in the 20 to 1000 MHz frequency range. This amplifier utilizes Silicon RF Power MOSFET devices that provide high gain, wide dynamic range and good linearity. High efficiency and reliable operation are being achieved by employing unique broadband RF networks, built-in high quality power supply, EMI/RFI filters, custom machined housing and heavy duty components. Each unit undergoes extensive burn-in prior to final test and Q/A.

AVAILABLE OPTIONS

- LCD Digital Display
- Gain Adjustment
- Automatic Level Control
- IEEE-488 GPIB
- Rack Mount or different Case Style
- Rear Panel Connectors, Type-N
- Rack Mounting Slide
- Extended Temperature Range