

ISO 9001 CERTIFIED

6-220 MHz, 1 kW pulsed, solid-state, RF power amplifier systems

Electrical specifications:

| | | |
|------------------------------------|---------------------------------------|--------------------------------|
| Frequency range | 6-220 MHz | |
| Pulse power into 50 ohms (min.) | 1000 W | |
| CW power into 50 ohms (max.) | 100 W | |
| Linearity (± 1 dB to 200 MHz) | 0 - 800 W | |
| (to 220MHz) | 0 - 600 W | |
| Gain (typ.) | 65 dB | |
| Gain flatness | ± 4 dB | |
| Input Drive | 0 dBm max. | |
| Input/output impedance | 50 ohms | |
| Input VSWR | Less than 2:1 | |
| Pulse width | 20 ms, 100 ms with long pulse option | |
| Duty cycle | Up to 10% | |
| Amplitude rise/fall time | 200 ns typ. | |
| Amplitude droop | 5% to 10 ms typ; 7% max. | |
| Phase change/output power | 10° to rated power, typ.; 20° max. | |
| Phase error overpulse | 4° to 10 ms duration, typ. | |
| Noise figure | 11 dB typ. | |
| Output noise (blanked) | < 20 dB over thermal | |
| Blanking delay | < 1 μ s on/off, TTL signal | |
| Protection | 1. VSWR: infinite VSWR at rated power | 3. Over duty cycle/pulse width |
| | 2. Output overdrive | 4. Over temperature |

Supplemental characteristics:

| | | |
|-------------------------|---|-----------------------|
| Connectors, rear panel | 1. RF input: BNC (F) | |
| | 2. RF output: Type N (F) | |
| | 3. Noise blanking: BNC (F) | |
| | 4. Interface: 25 pin D(F), EMI filtered | |
| Controls, front panel | 1. AC power | 3. Pulse width |
| | 2. Fwd/Ref RF power | 4. Duty cycle |
| Indicators, front panel | 1. AC power on | 5. Over temperature |
| | 2. Peak power meter | 6. Overdrive, Fwd/Ref |
| | 3. Over pulse width | 7. CW mode |
| | 4. Over duty cycle/Standby | |
| System monitors | 1. Forward/reflected RF power | |
| | 2. Over pulse width/duty cycle | |
| | 3. DC power supply fault | |
| | 4. Thermal fault | |
| Cooling | Internal forced air | |
| Operating temperature | +10 to 40°C | |
| Power Supply | External supply box. | |
| AC line voltage | 208/230 VAC $\pm 10\%$, 50 - 60 Hz | |
| AC power requirements | 1500 VA | |
| Package | Rack mount | |
| Size (HWD, inches) | 12.25x19x23.5 | |
| Net weight | 165 lbs | |