

Model 3900-1

ISO 9001 CERTIFIED

**6 - 220 MHz, pulsed,
solid-state, RF power
amplifier system**

Electrical Specifications

Frequency range	6 - 220 MHz **
Pulse power (min.) into 50 ohms	300 W
	** 221-245 MHz 100 W
CW power (max.) into 50 ohms	30 W
Gain (typ.)	60 dB
Gain flatness	±3 dB
Input/Output impedance	50 ohms
Input VSWR	< 2:1
Pulse width (Max/ch)	20 ms
Duty cycle	Up to 1%
Amplitude rise/fall time	200 ns typ.
Amplitude droop	CH B: <5% to 10 ms typ.; 7% max. CH A: <10% to 10 ms typ.; 15% max
Noise figure	8 dB typ.
Output noise (blanked)	< 20 dB over thermal
Blanking delay	< 1 µs on/off, TTL signal
Protection	<ol style="list-style-type: none"> 1. VSWR: infinite VSWR at rated power 2. Input overdrive: up to 10 dB 3. Over duty cycle/pulse width 4. Over temperature

Supplemental characteristics:

Connectors, rear panel (2ea)	<ol style="list-style-type: none"> 1. RF input: BNC (F) 2. RF outputs: Type N (F) 3. Noise blanking: BNC (F) 4. Interface: 25 pin D(F), EMI filtered
Controls, front panel	<ol style="list-style-type: none"> 1. AC power 2. Duty cycle 3. Duty cycle
Indicators, front panel	<ol style="list-style-type: none"> 1. AC power on 2. Over pulse width 3. Over duty cycle 4. Over temperature 5. Overdrive 6. CW mode 7. FWD/RFL power
System monitors	<ol style="list-style-type: none"> 1. Thermal fault 2. DC power supply fault 3. Over duty cycle/pulse width 4. Forward/reflected RF power
Cooling	Internal forced air
Operating temperature	+10 to 40°C
AC line voltage	120/240 VAC, ±10%, 50 - 60 Hz
AC power requirements	1300 watts
Package	Rack mount
Size (HWD, inches)	5.25x19x24
Net weight	65 lbs