Model 3206

6-220 MHz, 150 Wpulsed, solid-state, RF power amplifier systems

Electrical specifications:

Frequency range	6-220 MHz
Pulse power into 50 ohms (min.)	150 W
CW power into 50 ohms (max.)	15 W
Linearity (±1 dB to 200 MHz)	0 - 125 W
(to 220MHz)	0 - 100 W
Gain (typ.)	53 dB
Gain flatness	±3 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	150 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	8 dB typ.
Output noise (blanked)	< 20 dB over thermal
Blanking delay	< 1 µs on/off, TTL signal
Protection	1. VSWR: infinite VSWR at rated power 2. Output overdrive 3. Over duty cycle/pulse width 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 2. Fwd/Ref RF power 3. Pulse width 4. Duty cycle
Indicators, front panel	1. AC power on 2. Peak power meter 3. Over pulse width 4. Over duty cycle/Standby 5. Over temperature 6. Overdrive, Fwd/Ref 7. CW mode
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	Integrated
AC line voltage	120/240 VAC ±10%, 50 - 60 Hz
AC power requirements	350 VA
Package	Rack mount
Size (HWD, inches)	5.25x19x22
Net weight	30 lbs

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