

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	