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## MODEL 8000A

**3.1 - 3.5 GHz  
10 KW  
PULSED HIGH POWER AMPLIFIER**

### Solid State S-Band Pulsed High Power Amplifier

The 8000 is a 10 KW S-band Pulsed amplifier that covers the 3.1 – 3.5 GHz frequency range. This amplifier utilizes Class A/AB power devices that provide an excellent Pulse fidelity and Phase stability performance.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

The system will be shipped with a test box and control software

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	3.1 – 3.5 GHz
2	Peak Output Power	10KW typical
3	Power flatness	0.5dB peak to peak
4	Input VSWR	1.5:1 max
5	Harmonics	-80 dBc typical
6	Spurious Signals	> -80 dBc typical
7	Inter-pulse Noise	-110 dBm/MHz
8	AC Input Power Efficiency	30% typical
9	AC Input	110 VAC, 400Hz, three phase
10	RF Input	+0 dBm
11	RF Input Signal Format	Pulse
12	Pulse characteristic	Pulse width 4 to 100 uS Duty Cycle up to 10%
13	Gating	1µS prior and after the RF Pulse
14	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
15	Dimensions	24" standard rack, 15U maximum
16	Weight	200 lbs. max
17	In/Out RF Connectors	Female SMA RF Input Female 7/16 Output D-sub 25pins RS232 and discrete
18	Grounding	Chassis
19	Cooling	Internal air cooled
<b><u>Environmental</u></b>		
20	Operating Temperature	27°C
21	Operating Humidity	100% Non-condensing @ 27°C
22	Operating Altitude	Up to 5,000' Above Sea Level
23	Shock and Vibration	Normal truck transportation

