

**FEATURES**

- Rack mounted system
- Built-in protection circuits
- High reliability and ruggedness


**ELECTRICAL SPECIFICATIONS**

Parameter	Specification	Notes
Operating Frequency Range	8.00 - 18.00 GHz	
Power Ripple	+/- 0.1 dB (maximum)	
Output Peak Power	+63dBm (minimum)	
Load VSWR	2:1 (maximum)	
Duty Cycle	6% (maximum)	
Gain (for rated output)	63 dB (adjustable)	
Input Power (for Rated Output)	0 dBm (typical)	
Spurious Output 0-250 Hz	-55 dBc (minimum)	
>250 Hz	-60 dBc (minimum)	
Output VSWR Protection	100%	
Gain Stability	0.25 dB/24 hours (typical)	
RF Output Pulse Video Sample	+ 10 mv/kw into 50Ω	
RF Output Power Sample	-40 dB	
RF Interstage Power Sample	-20 dB	
RF Input Power Sample	-20 dB	

**ENVIRONMENTAL CHARACTERISTICS**

Parameter	Specification	Notes
Operating Temperature	0.1 to +50C   Derate to 10C for 10,000 foot Operation	
Storage Temperature	-40 to +85 °C	
Humidity	0 to 95% non-condensing	
Altitude	0 to 10,000 feet above sea level	

**MECHANICAL SPECIFICATIONS**

Parameter	Specification	Notes
Dimensions - Front Panel Depth W x H x D	19"W x 8.75"H x 26"D Chassis (28"D Overall)	
Weight	85 Pounds (estimated)	
Front Panel	Standard RETMA .125" thick with slotted mounting holes	
Finish - Front Panel Chassis	Anodize, Color Blue; Alodine, Color Gold	
Cooling	Self Contained Forced Air	



**Advanced Amplifiers**

## AA-818G-2KW-PT

**8.0 - 18.0 GHz, 2kW Watt Min., 63 dB Min.  
PULSED RF HIGH POWER AMPLIFIER**

### Modulation

Pulse Width	0.1 us to 100 us	
Repetition Rate	0 to 500 KHz	
Rise and Fall Time	100 ns (maximum)	
Droop	0.01 dB/us (maximum)	
Pulse Jitter	+/- 2.5 ns	
Video/RF Throughput Delay	300 ns (maximum)	

### Electrical

Primary Input Power Mains	240+/-10%/1p/60Hz	
Primary Power Consumption	1.5 kVa (maximum)	
Elapsed Time Meter	00,000.00 hours   100%	
Modulation Input Pulse	+5v TTL	
Digital Interface	Ethernet (LAN)/RS-232	
Video/RF Throughput Delay	300 ns (maximum)	