



TWT Amplifier
6-9GHz, 500W, CW
RTWTA-6-9GHz-500W-CW-w9



ELECTRICAL	
Frequency Range:	6-9 GHz
Output power Psat.	57 dBm typical (1kW rated min)
Input power	0 dBm for 500W out
Duty	CW
Spurious for 0-250Hz	-55 dBc max.
Spurious for >250Hz	-60 dBc max.
Output VSWR protection	
Input VSWR	2:1 max.
Output RF Power sample	-40 dBc
Primary Power: Nema LS-20 (3 wire) interface.	
Voltage:	220 ±10%, single phase, 60Hz
Primary Power Consumption	2.1KVA max.
Primary Power Input	NEMA L5-20 (3 wire)
MECHANICAL	
Dimensions:	19" x 8.75" x 28" deep (Rack)
Weight:	110 Pounds typical
Finish	Front: Black Anodized Chassis: Gold Alodine
RF Connectors:	
Front panel: Std RETMA 3/16 inch thick	
Input:	Type-N (f) on rear panel
Output:	Waveguide WRD-450
RF Sample Ports	Type "N" (f) on front panel

ENVIRONMENTAL	
Temperature:	0°C to +50°C
Operating	(derate 10°C per 10,000 feet altitude)
Storage:	-30°C to +60°C
Humidity:	0-95% non condensing
Altitude	To 10,000 feet (-30 to 60°C)
MONITOR & CONTROL	
Computer Interface:	24 pin IEEE-488 (GPIB) rear panel (optional) Ethernet RJ45 rear panel (optional) RS 232 DB9F rear panel
Front Panel	
Front panel Switches	OFF/Standby/Operate/Reset
Front panel status mon.	Warmup/Standby/Operate/Reset
Conditions monitored and interlocked:	
VSWR	
Body Voltage	xx.xx KV
Body current	xx.xx mA
Collector Voltage	xx.xx KV
Collector Current	xx.xx mA
Heater Voltage	x.xx V
Heater Current	x.xx A
Grid bias voltage	xxx.xx V
Grid Pulse amplitude	xxx.xx V
Lid Access interlock	Fault
Over temperature	Fault

RS 232 interface allows remote operation, monitor, control; and adjustment. Any fault condition latched the information. Windows compatible MS GUI is supplied. The following Parameters. have high and low limits that are factory adjustable, Cathode Voltage, Body Current, Heater Voltage, Heater current, Grid bias voltage, Self contained forced air cooling.