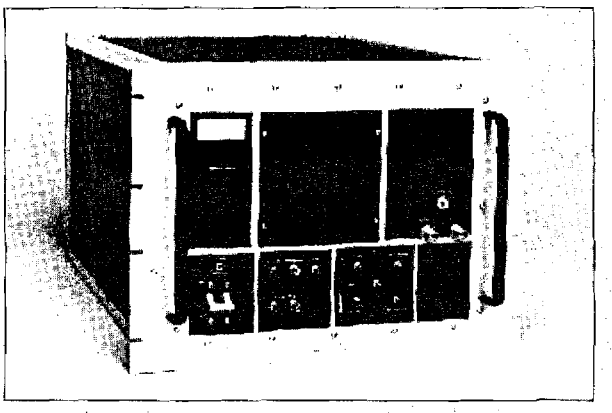
TRAVELING WAVE TUBE AMPLIFIERS

Logimetrics



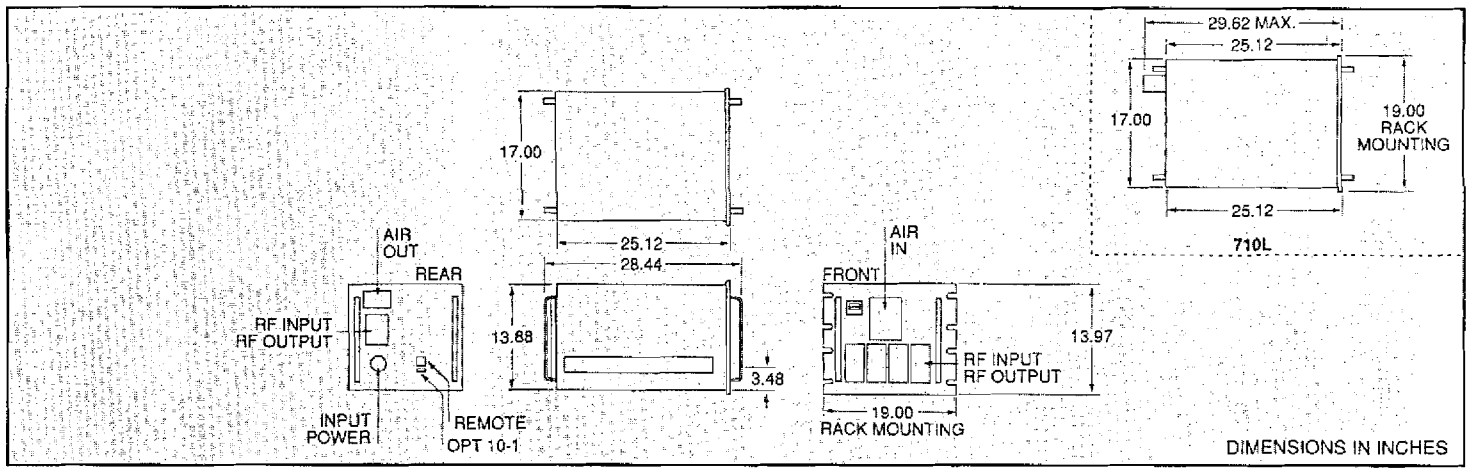
HIGH POWER AMPLIFIERS

A710 SERIES
1 Kw PULSED
0.7-18.0 GHz
2% DUTY CYCLE

The Logimetrics A710 series of 2% duty cycle pulsed kilowatt high power instrumentation and subsystem amplifiers provide the user with proven reliable instrumentation for a wide variety of test and system applications. Each amplifier features regulation of the helix, filament, and grid power supplies, thus providing stable operation and long life for the TWTs. The TWT is fully protected against power supply malfunctions such as helix overcurrent, and excessive duty cycle. The power supply is designed to incorporate TWTs as manufactured by several suppliers, allowing for wide flexibility in meeting your needs.

- Monitors
  Beam Current Meter
- Status Indicators
  Power On
  RF Standby/On
  Faults:
    Beam
    Power Supply Thermal Overload
    TWT Thermal Overload
    Air Flow
    Duty Cycle
- Controls
  Power On/Off
  RF Standby/On
  Fault Reset
  Local/Remote
- Ease of Maintenance
- Designed to meet the safety requirements of IEC-348 and Underwriters Laboratory of American Standards
- Broadband Coverage

- EMC Susceptibility Testing
- Radar Systems/Simulators
- General Laboratory Instrumentation
- System Amplifiers
- Threat Simulation
- Antenna Pattern Testing
- High Power Component Testing



A710 SERIES

TRANSMITTER/AMPLIFIER

Model Number	Frequency Range (GHz)	Min Pwr Out* (Kw)	Min Sat Gain* (dB)	Max NF (dB)
A710/L	0.7-1.0	0.5	30	35
	1.0-2.0	1.0	30	35
A710/S	2.0-4.0	1.0	35	35
A710/EH	2.0-2.5	0.5	35	35
	2.5-8.0	1.0	35	35
A710/EHX	2.0-8.0	1.0	35	35
A710/C	4.0-8.0	1.0	35	35
A710/X	8.0-12.4	1.0	40	35
A710/U	12.4-18.0	1.0	40	35
A710/IJ	8.0-18.0	1.0	40	45

*Higher output power and gains available

Spurious:	-40dBc (-50dBc available)
In/Out Impedance:	50 Ohms
In/Out VSWR:	2.5:1 Maximum
Duty Cycle:	2%
Pulse Width:	100nSec to 10 microsec
Pulse Rate:	20kHz maximum (3)
Pulse Rise Time:	35nSec maximum
Pulse Fall Time:	35nSec maximum
Pulse Trigger:	+5V into 50 Ohms, RF on (2)
RF Trigger Delay:	250nSec (2)

RF Connectors:

Frequency	Input	Output	Trigger
1.0-8.0	Type N	Type N	BNC
8.0-12.4	Type N	WR90	BNC
12.4-18.0	Type N	WR62	BNC
8.0-18.0	Type N	WRD750	BNC
Location:	Front Panel	Front Panel	Front panel

POWER REQUIREMENTS

115 VAC, ±10%, Single phase, 50/60 Hz, 1KVA maximum

MECHANICAL

Dimensions:	14" (356mm) Hx17"(432mm) Wx25" (635mm)D Rack Mount
Weight:	130 pounds maximum (59 kg)
Cooling:	Internal Forced Air
	Air Intake: Front panel | Air Exhaust: Rear panel

CONTROL/MONITOR

Standard: Operating mode control and status monitoring via dedicated circuits.

ENVIRONMENTAL

Operating Temperature:	0-50°C (40°C @ 10,000 Feet)
Relative Humidity:	95% (noncondensing)
Operating Altitude:	10,000 feet maximum
NonOperating Temp.:	-20 to 70°C
NonOperating Altitude:	50,000 feet maximum

OPTIONS

Option 04-XX	Alternate Prime Power (2)
Option 07-3	Input Pin Diode Pulse Modulator with 40dB Isolation; 15ns rise/fall times (1)
Option 09	Integral Input Isolator (1)
Option 10	Relay Remote
Option 10-1	IEEE-488 GPIB Remote
Option 12	RF sample of the output (-50dBc) (1)
Option 13	Chassis Slides for 19" Rack Mounting
Option 14	Internal Preamp for rated power @ less than 0 dBm input
Option 15	Input Attenuator; 20dB range (1)
Option 16	Remote Control Panel
Option 18	RF Input/Output Connectors on the Rear Panel

Other options available (2)

NOTES
(1)Option may effect rated output power and gain
(2)Consult factory for features and other functions
(3)Limited to the maximum pulse rate, duty cycle, and pulse width
Specifications subject to change without notice

LogiMetrics

Warranty: One full year from date of shipment non-prorated for both the TWT and power supply.

121-03 Dupont Street, Plainview, New York 11803, U.S.A. • (516)349-1700 • TWX: 7608152 LOGMETUC • FAX: (516)349-8552