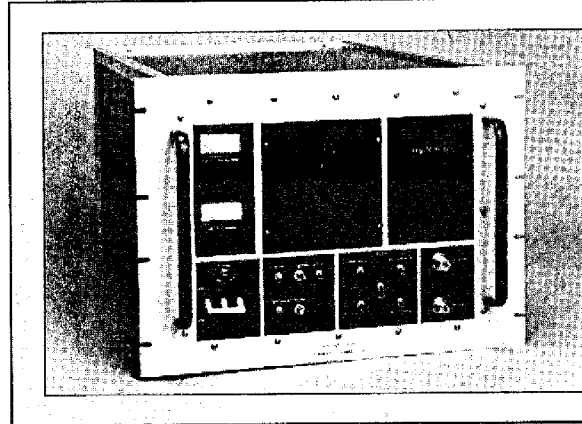


**TRAVELING
WAVE
TUBE
AMPLIFIERS**

LogiMetrics



**HIGH
POWER
AMPLIFIERS**

**A500 SERIES
100 WATTS CW
1.0-18.0 GHz**

The LogiMetrics A500 series of high power, linear broadband microwave 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

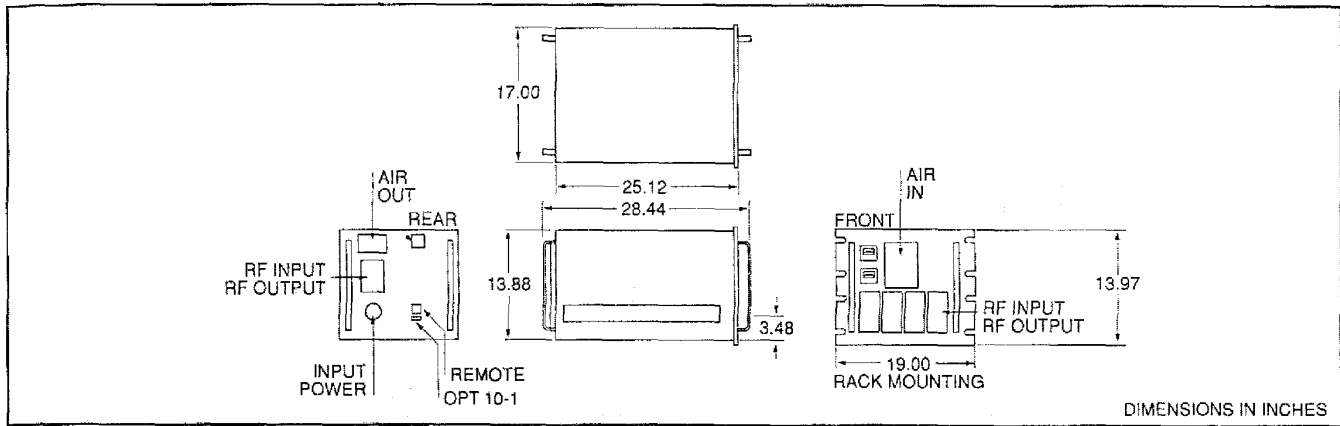
supply malfunctions such as helix overcurrent. The power supply is designed to incorporate depressed collector TWTs as manufactured by several suppliers, allowing for wide flexibility in meeting your needs.

Optionally, the TWTAs can be supplied with complete input and output VSWR protection.

- Monitors
 - Collector Current Meter
 - Helix Current Meter
- Status Indicators
 - Power On
 - RF Standby/On
 - Faults:
 - Helix Overcurrent
 - VSWR Overload
 - Power Supply Thermal Overload
 - TWT Thermal Overload
 - Air Flow
- 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
- Communications
- General Laboratory Instrumentation
- System Amplifiers
- Threat Simulation
- Antenna Pattern Testing
- High Power Component Testing





DIMENSIONS IN INCHES

A500 SERIES

RF SPECIFICATIONS

Model Number	Frequency Range (GHz)	Min Pwr Out* (Watts)	Min Sat Gain* (dB)	Max NF (dB)
A500/L	1.0-2.0	100	27	35
A500/S	2.0-4.0	100	30	35
A500/C	4.0-8.0	100	30	35
A500/EH	2.0-8.0	100	30	37
A500/X	8.0-12.4	100	35	35
A500/U	12.0-18.0	100	35	35
A500/IJ	8.0-18.0	100	35	35

*Higher output power and gains available

- Spurious: -40dBc (-50dBc available)
- In/Out Impedance: 50 Ohms
- In/Out VSWR: 2.5:1 Maximum
- Residual AM: 1% Maximum (-40dBc) (3)
- RF Connectors:

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

PRIME POWER

- A500/L,S,C,X 115 VAC, ±10%, single phase, 50/60 Hz, 2 KVA maximum
- A500/EH,U,IJ 208 VAC, ±10%, three phase, 50/60 Hz, 2 KVA maximum

MECHANICAL

- Dimensions: 14"H(356mm)x17" (432mm)Wx25" (635mm)D
- Rack Mount
- Weight: 175 pounds maximum (79.6 kg)
- Cooling: *Internal Forced Air*
- Air Intake: Front Panel
- Air Exhaust: Rear Panel

REMOTE OPERATION

- 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

COMMON OPTIONS

- Option 03 Reflected Power Cutoff, VSWR protection (1)
- Option 04-XX Alternate Prime Power (2)
- Option 07 Input Pin Diode Pulse Modulator with 40dB Isolation; 15 ns 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) Typically -46dBc AM; -55dBc FM
- Specifications subject to change without notice



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

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