

ENI (ELECTRONIC NAVIGATION INDUSTRIES)

525LA

The ENI 525LA is a solid-state Class A RF power amplifier designed for laboratory and test applications. It delivers 25 Watts of linear RF power over a broad frequency range from 1 to 500 MHz, operating reliably into any load impedance mismatch.

SPECIFICATIONS

General

Interfaces	None (analog RF power meter only)
Display	Front panel analog meter

Physical

Power Supply	115 / 230 VAC, 50/60 Hz
Operating Temperature	0 to +40 °C °C
Dimensions (W×H×D)	221 mm × 145 mm × 391 mm mm
Weight	12.7 kg (28 lbs) kg

RF Performance

Frequency Range	1 to 500 MHz
Nominal Power Output	25 Watts
Nominal Gain	50 dB
Gain Flatness	±1.5 dB
Noise Figure	12 dB (maximum)
Amplifier Class	Class A
Third-Order Intercept Point (IP3)	+54 dBm (typical)
Harmonic Distortion	< -20 dBc at 22 Watts output
Saturated Power Output	40 Watts (typical)
Spurious Output	< -60 dBc (more than 60 dB below fundamental)

Port Characteristics

Input Impedance	50 Ω
Output Impedance	50 Ω
Maximum RF Input Power	20 mW
RF Input Connector	BNC Female
RF Output Connector	BNC Female
RF Input Connector Location	Front Panel
RF Output Connector Location	Front Panel

Physical Characteristics

Cooling Mechanism	Forced Air
Form Factor	Module / Benchtop

Protection & Ruggedness

Reflected Power Tolerance	Infinite VSWR (operates into any load without damage)
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Protection

Output Mismatch Protection	Continuous operation into any load VSWR from open to short circuit without damage
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Performance

Input VSWR	< 1.5:1
Output VSWR	< 2.0:1
Amplifier Technology	Solid State
Duty Cycle	Continuous

Signal Characteristics

RF Coupling	AC Coupled
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TECHNOLOGY

Solid State

APPLICATIONS

RF Power Amplification / Test & Measurement

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