



70MHz

500W

LEANAMP-70M-500-M

70MHz 500W Solid-State Amplifier

LEANAMP-70M-500-M is a compact and light-weight 70MHz 500W Solid-State Amplifier, conceived to provide a power signal for applications requiring long-term reliability and high operating stability.

The module has been developed after careful analysis of technical requirements coming from operators in the medical field, exploiting the Company's deep know-how in the field of radiofrequency.

LEANGEN-70M-500-M is built in an enclosure with integrated finned heatsink to allow the customer executing a simple integration procedure within devices equipped with a forced-air cooling system.

The amplifier is fully made with LDMOS technology, is powered by a single 48Vdc supply voltage and operates with 70% efficiency, producing a 500W output in continuous wave (CW) mode with a 45dB gain.

An integrated low-pass filter allows an effective rejection of the output harmonics to guarantee a high spectral purity at all the operating power levels and two auxiliary signals allow real-time monitoring of forward and reflected power levels.

QUICK OVERVIEW

Very compact and light-weight

48Vdc power supply

Forced-air cooling

Integrated finned heatsink

Optimized for CW operating mode

70MHz operating frequency

SMA input

N 50Ω coaxial output

Real-time monitoring of forward and reflected power

Integrated low-pass filter



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Technical Specifications

Output Power	500W CW nominal, max 550W
Power Modes	Optimized for CW mode
Input Connector	SMA - 50Ω
Output Connector	N - 50Ω
Technology	LDMOS
Gain	45dB ±1dB
Operating Frequency	70MHz ⁽¹⁾
Power Supply	48Vdc 14.5A
Power Efficiency	70%
Harmonic Levels	< 60dBc
Forward and Reflected Power Meas.	Real-time
Cooling System	Integrated heatsink for forced-air cooling
Size	220x140x80mm including connectors
Weight	2.5kg

(1) 81.36MHz frequency available with identical performances

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