

LEANGEN-450k-200-M

OEM 450kHz Radiofrequency Generator

LEANGEN-450k-200-M is a compact OEM Generator Module conceived for demanding ISM applications requiring state-of-the-art technology, absolute signal purity, flexibility of configuration, modern digital control, high energy efficiency and long-term reliability.

LEANGEN-450k-200-M has been developed after carefully assessing the design requirements coming from challenging International Companies operating in the Industrial, Scientific and Medical fields. The module is powered at 30Vdc and generates a sinusoidal output at 450kHz, accurately adjustable from 0 to 200W, referred to a 50Ω resistive load.

The module is available with a simple analogue user interface or, in alternative, with an easy high-speed serial interface. Moreover, we can supply various advanced graphic interfaces for PC or for embedded control systems, able to quickly allow the introduction of new ready-for-use devices on the market.

The Generator, design for resistive loads in its standard version, is available in different configurations for reactive loads (typical of some electromedical applications) and can operate in continuous mode and in different pulsed modes, with both frequency and *duty cycle* easily configurable by the user.

LEANGEN-450k-200-M provides instantaneous measurement of RF voltage and current – to allow real-time control of the power directed to the load and of the load impedance module – and of the operating temperature and generates alarms signalling configurable upon customer specifications.

Multifrequency operation and different output powers are quickly available on request.

QUICK OVERVIEW

Ready for quick integration

Single 30Vdc power supply

High energy efficiency

Sinusoidal 450kHz output

Integrated forced-air cooling

200W on 50Ω resistive load

Analogue user interface, serial or graphic for PC or embedded systems

Real-time measurement of Temperature, RF Voltage and RF Current

Continuous and pulsed modes

Version available for reactive loads

Multifrequency operation on request

Different output powers on request

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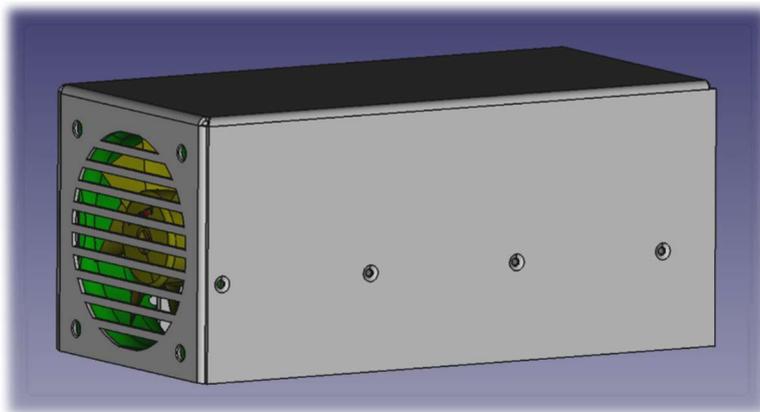
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Technical Specifications

Output Power	0-200W CW on 50Ω
Frequency	447kHz
Operating Modes	CW, Pulsed, Fast Pulsed
Output Connector	2-poles screw terminal
Power Supply Voltage	+30Vdc
Supply Current	Max 13A
Efficiency	65% on 50Ω
Power Supply Connector	4-poles screw terminal
User Interface	Analogue (standard), Serial (optional)
GUI for PC or embedded system	Available on request
Control Signals	ON/OFF, Output Power, Alarm
Real-time measurements	RF Voltage, RF Current
Control Connector	IDC 10 poles
Cooling	Forced air, integrated (customizations available)
Output Isolation Type	Customizable on request
Size	210x100x100mm
Weight	1.5kg

Max RF power versus load

Power [W]	50	100	200	100	50	20	10
Impedance [Ω]	12.5	25	50	100	200	500	1000



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 Due to our continuous improvement effort, specifications are subject to change without prior notice

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