

Experts in RF & Microwave technology for Medical applications



COMPANY INTRODUCTION

Pioneers in GaN Solid-State Microwave

RFHIC is a leading pioneer in designing and manufacturing GaN-based Microwave components for low powered medical ablation and high powered proton beam therapy applications. With our state-of-the-art GaN technology – we continue to reimagine industries and make the impossible possible.

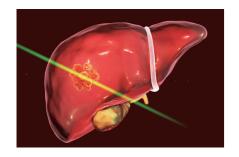


APPLICATIONS

Medical Applications

MW Thermotherapy

- Diathermia
- Hyperthermia
- Thermoablation



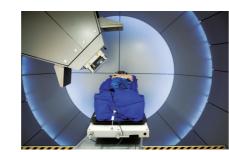
MW Diagnostic Systems

- MW Differential Tomography
- MW UWB Diagnostic Radar
- MW Radiometry



MW Oncology & Radiation

- · Medical Linear Accelerator (LINAC)
- Proton Beam Radiotherapy



ADVANTAGES

Advantages of MW technology

	Microwave Ablation	RF Ablation
Heating Volume	Fast & Larger Volume	Slow & Smaller Volume
Heat Sink Effect	No	Yes
Ground Pads	No	Yes

	GaN Solid-State MW	Magnetron
Average Lifetime	50,000 ~ 100,000hrs	2,000 ~ 4,000hrs
OPEX Costs	Low	High
Stability	High	Low
Size	Compact	Large
Control	Digital	Analog
Power Levels	> 1 MW	< 75 kW

PRODUCT

20W | Medical Laser

RFHIC's wideband drive amplifier for various medical laser applications including ophthalmological laser system.

Part No.	Frequency	Output Power	Efficiency	Dimensions
RFC1G21H4-24-S	20 ~ 1,000MHz	20W	65%	44 × 15 × 21mm



30W | Hyperthermia

Discover how RFHIC's GaN Solid State Microwave Generators can be used for next-generation microwave diathermy applications. Providing a consistent distribution of microwave energy for a more precise and uniform penetration to the skin and tissue.

Part No.	Frequency	Output Power	Efficiency	Dimensions	Cooling
RIP25030-10G	2.4 ~ 2.5GHz	30W	52.5%	45×24×10.8mm	Air
RIH25030-20	2.4 ~ 2.5GHz	30W	70%	13 × 17 × 2.9mm	Air



100W/200W | Microwave Ablation

RFHIC's GaN Solid State Microwave Generator technology can be used for thermal ablation techniques including tumor ablation and various dermatological treatments.

Part No.	Frequency	Output Power	Efficiency	Dimensions	Cooling
RIM25100-20G	2.4 ~ 2.5GHz	100W	60%	200×100×30mm	Air
RIM25200-20G	2.4 ~ 2.5GHz	200W	60%	200 × 100 × 30mm	Air



2kW/30kW | Medical LINAC

RFHIC's GaN Solid State Microwave Generators designed ideally for medical linear accelerator (LINAC) applications.

Part No.	Frequency	Output Power	Efficiency	Dimensions	Cooling
RIM132KO-20	1.3GHz	2kW	65%	360 × 200 × 46mm	Water
RIK1330K-40T	1.3GHz	30kW	62%	793 × 1017 × 1900mm	Water



30kW/60kW | Medical Waste Treatment

Sterilize and dispose of biohazardous waste with the use of microwave heating. RFHIC's GaN Solid State Microwave Generator can be used as the main heating source for your medical waste treatment applications.

Part No.	Frequency	Output Power	Efficiency	Dimensions	Cooling
RIKO930K-40TG	900 ~ 930MHz	30kW	65%	793 × 1017 × 1900mm	Water
RIKO960K-40TG	900 ~ 930MHz	60kW	65%	1556 × 1006 × 2046mm	Water



Global Locations



Main Locations

RFHIC HQ (World Headquarters)

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Sister Companies

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Global Sales Offices

GERMANY

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JAPAN

• M-RF Co. LTD 8-11, Izumi-cho 1-chome 101-0024, Chiyoda Tokyo

CHINA

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ITALY

• LET Srl (Leading Edge Technologies)

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