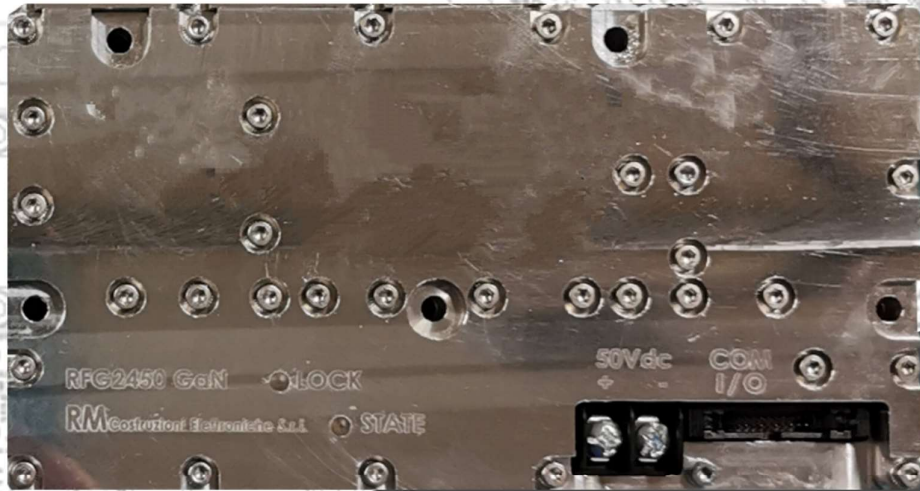


DIGITAL CONTROLLED RF Generator 2.45GHz 300Wcw



RM
ITALY

TARGET APPLICATIONS:

Industrial heating (Sterilization – Pasteurization)
Moisture (levelling process)
Heat sealing
Microwave ablation
Renal denervation
Chemical heating
Medical aesthetic treatments

HIGHLIGHTS:

OUTPUT POWER: $300W_{cw}$ (+0,2 -0,5 dB @2450MHz @300°K)
FREQUENCY: 2450MHz +/- 50MHz
TECHNOLOGY: GaN
OVERALL EFFICIENCY: >68% @50V supply
POWER SUPPLY: +50Vdd / +5Vcc, 1A min
PROTECTION: VSWR all magnitude all phase angles
WORKING TEMPERATURE: certified to 55°C
(Max. Limit 65°C)
DIMENSIONS: 170mm x 82mm x 25.5mm (LxWxD)
including N connector
WEIGHT: Approx. 730g
OUTPUT CONNECTOR: Type N female - 50 Ohm
CONTROL: Entirely controlled by MCU:
All parameters are available in analogue
or digital format via USB

TECHNICAL CHARACTERISTICS:

Maximum current at $300W_{cw}$ (50Vdd): Approx. 10A
OUTPUT POWER RANGE: From 15 to $300W_{cw}$
with 32 digital steps (log/linear response)
OUTPUT POWER CONTROL: Digital (via USB)
Analogue (via voltage control)
AVAILABLE MEASURES - (ANALOGUE AND DIGITAL):

- Output forward power
- Output reflected power
- Internal temperatures (MCU and RF Power device)

PROTECTION: Load VSWR, Temperature,
emergency shutdown control
OPTIONAL MODULATION TYPES: FM, Pulsed
OPTIONAL RF INPUT: Via SMA female connector
(For other modulation types, on request)
OPTIONAL GRAPHICAL USER INTERFACE (GUI): On request
CONTROL PORT CONNECTOR: 20 pole 1.27mm pitch with
mechanical lock
50V SUPPLY INPUT CONNECTOR: Screw terminal block

NOTE:

This module must be mounted to an external heat sink.