

DIGITAL CONTROLLED

RF generator 2.45GHz 250Wcw



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: 250Wcw

FREQUENCY: 2450MHz +/- 10kHz
(from 2400MHz to 2500MHz step 100kHz)

TECHNOLOGY: LDMOS

OVERALL EFFICIENCY: 50%

POWER SUPPLY: 32Vdc / 5Vdc

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
and digital format

TECHNICAL CHARACTERISTICS:

Maximum current at 250Wcw (32V): Approx. 17A

OUTPUT POWER RANGE: From 10 to 250Wcw with 32
digital steps (logarithmic response)

OUTPUT POWER CONTROL: Digital (via USB) - Analogue
(via voltage control)

AVAILABLE SIGNALS - (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

32V SUPPLY INPUT CONNECTOR: Screw terminal block

NOTE: This module must be mounted to an external
heat sink