



## EVALUATION KITS

### Laboratory Kits for Microwave Generators

To speed up the evaluation of the highly innovative LEANFA technology, characterized by an optimal combination of solid-state microwave generators and advanced software algorithms, we have conceived two **Evaluation Kits**, ready for a true plug-and-play experience.

The **STARTER Evaluation Kit** is built around **one** 2450MHz 250W OEM generator, and it comes with a USB interface card, a forced-air cooling system, an AC/DC switching power supply and with the *LeanOn* Control and Monitoring application for Windows OS. It is the basic kit to learn the advantages of our solid-state generators in terms of parametric accuracy, real-time interaction with the processed material and extreme operating flexibility, featuring CW and pulsed radiation modes.

The **PHASESHIFTER Evaluation Kit** is built around an array of multiple OEM amplifiers operating in one of the ISM bands (433MHz, 915MHz or 2450MHz), and it comes with a USB interface card, a forced-air or liquid cooling system and an AC/DC switching power supply for each included amplifier and an **advanced synthesizer** with multiple outputs capable of accurate frequency synchronization and 360° independent phase rotation. The hardware kit is accompanied by the *LeanOn* Control and Monitoring application for Windows OS.

The software comes with real-time diagrams and produces complete data reports. Optionally, the *LeanOn* application can be provided with a smart **Recipe Editor**, very useful to test the **KOPERNICOOK®** concept, allowing advanced thermal profile engineering in advanced laboratory environment.



## QUICK OVERVIEW

*Evaluation Kits featuring 1 or multiple OEM solid-state modules*

*“STARTER” Evaluation Kit for basic technology assessment*

*“PHASESHIFTER” Evaluation Kit for advanced R&D experimentation*

*80-275 Vac universal power supply*

*ISM frequency bands*

*Real-time measurement of reflected power*

*LeanOn PC software platform for advanced Monitoring & Control*

*CW and pulsed radiation modes*

*Complete with cooling system*

*Fully isolated RF output stages*

*Optional Frequency Scan for STARTER kit*

*Optional Recipe Editor for PHASESHIFTER kit*

# EVALUATION KITS

## Laboratory Kits for Microwave Generators

### Technical Specifications

#### Items included

1 pc. 2450MHz 250W OEM generator with N output

1 pc. forced-air cooling system

1 pc. USB interface card

1 pc. AC/DC 600W power supply

*LeanOn* Control and Monitoring application for Windows OS

#### SW Option

Frequency scan for reflected power minimization

#### Operating Frequency

2400-2500MHz step 2MHz

#### Radiation Modes

CW and Pulsed

#### Items included

Multiple OEM amplifier modules

Forced air or liquid cooling system

1 pc. USB interface card

Integrated power supply system

1 pc. advanced synthesizer with multiple outputs

*LeanOn* Control and Monitoring application for Windows OS

#### Operating Frequency

433MHz, 915MHz or 2450MHz ISM bands

#### Phase Shift

0° to 360° step 1.4°

#### Radiation Modes

CW and Pulsed

#### Software Option

Recipe Editor for *LeanOn* platform

### “STARTER” EVALUATION KIT

### “PHASESHIFTER” EVALUATION KIT

*NOTE: Both items are conceived as evaluation equipment for laboratory experimentation, they are not suited for 24h continuous prolonged operation. Real industrial use requires specific cooling solutions, to be tailored around each specific process.*



“STARTER” Evaluation Kit



“PHASESHIFTER” Evaluation Kit