

### KU SG 2.45-250A

2400 ... 2500 MHz • 0 ... 250 W

- - Remote control
- - Frequency and output configurable
- - Versatile application
- - Intuitive operation
- - Operational safety through numerous protective circuits and monitoring

#### Description

With the KU SG 2.45 – 250 A Kuhne electronic presents a high power signal generator for the ISM band around 2.45 GHz. This device is especially designed for "Microwave Heating". But it can also be used for propagation tests of electromagnetic waves, EMC tests, plasma generation and other applications.

The KU SG 2.45 – 250 A can be controlled via a serial interface (3.3 V level). The commands and status information can be transmitted via a downloadable GUI or a common terminal program. In addition to that, warnings and alarms are signaled through a LED on the signal generator.

The output signal can be adjusted between 2400 ... 2500 MHz in steps of 5 MHz; the output power is adjustable between 0 ... 250 W in steps of 10 W.

#### Features

- GUI for controlling and monitoring
- Adjustment of frequency in steps of 5 MHz
- Adjustment of output power in steps of 10 W
- Sweep - function
- Pulse - function (duty cycle adjustable)
- Find best frequency function
- Isolator for protection against high VSWR
- Monitor function of VSWR and switch-off (steps adjustable)
- Stable output power over wide temperature range
- Monitoring of transistor temperature
- Switch-off if transistor temperature is too high.
- Monitoring of forward power
- Monitoring of reflected power
- Under voltage warning
- ON/OFF – Control over interface or pin (ext. voltage)

#### Applications

- Warming or heating through microwaves
- Plasma generation
- Investigation of propagation of electromagnetic waves
- EMC-tests (electromagnetic compatibility)

#### Important notes

Please notice the following:

- The recommended combination of heat sink and fan(s) is only specified for an ambient temperature of 25 °C.

- Further information about dimensioning of heat sinks is available on our FAQ site.

GUI

[Click here to download](#)



### 250 W Solid State

#### Technical specifications:

Frequency range	2400 ... 2500 MHz
Frequency step size	5 MHz
ON Voltage	+5 V DC
maximum case temperature	+70 °C
Output power	0 ... 250 W
Output power step size	10 W
Protection functions	isolator
Remote control	GUI / Serial (3.3V)
Supply Voltage	32 V DC
Current consumption	max. 22 A @ 250 W
Output / impedance	N-female / 50 ohms
Case	milled aluminium
Dimensions	144 x 107 x 25 mm
Weight	640 g (typ.)