Solid State RF Generator
FM-SGW2450M0500W

General Information

Features
- Designed for industry heating and plasma process application
- Frequency hopping with power adjustment for stable processing
- Frequency band 2400 MHz – 2500 MHz, adjustable in 100 kHz steps
- Maximum 500 Watt output power
- 20 Watt - 500 Watt setting range, adjustable in 1 W steps
- Output load VSWR Protection
- High efficiency water cooling mechanical design in a compact and robust housing

Specification

Electrical and Technical Data
- Frequency band: 2.4 – 2.5 GHz
- RF maximum output power: 500 W, 57 dBm
- Efficiency (PAE): ≥ 54 %
- Power setting range: 20 - 500 W, 1 W-steps
- Frequency setting range: 2400 - 2500 MHz, 100 kHz-steps
- Pulse frequency: 1 – 20 kHz
- Duty cycle: 20 – 100 %
- Pulse rise time: ≤ 200 ns
- Pulse fall time: ≤ 200 ns
- Circulator / Isolator: Yes
- Power supply PA: 32 V dc
- Power supply SG: 12 V dc
- Maximum power consumption: max. 1000 W

Environmental
- Environment temperature: +10° to +55° C
- Cooling water temperature: +10° to +30° C
- Water flow: ≥ 8 l/min.
- MTBF: ≥ 100000 h

Mechanical Data
- Dimensions of housing (WxHxD): 246 x 40 x 140 mm
- Weight: 2.5 kg