Solid State Microwave Generators
FM - SSMWG - 500 W 2.45 GHz

General Information

FM - SSMWG - 500W 2.45 GHz Microwave Generators from Fricke und Mallah Microwave Technology GmbH are compact, light-weight and highly reliable solidstate microwave generators which provide continuous wave at frequencies ranging between 2400 MHz and 2500 MHz. This microwave generator features a 0-500 W CW output and the power is easily adjustable in 0.2-W-steps. Meanwhile, it integrates real-time monitoring and full automatic operation with a user-friendly control panel which is allowing users to do easy set-up and control.

FM - SSMWG - 500 W 2.45 GHz Microwave Generators operate perfectly with water cooling. They are the cutting-edge tool for industrial and scientific application.

Key Features / Technical Details

- Compact light-weight design: 19" 4HE rack mounted
- Output power 0-500W, adjustable in 0.2-W-steps
- Output frequency 2400-2500 MHz, adjustable in 1 MHz-steps
- Real-time measurement of reflected power and frequency
- Flexible coaxial cable with low damping to enhance the high-power efficiency
- AC input 230 VAC; 50/60 Hz
- Water cooling system with 2x Coupling plugs (NW7.2; 9mm; KSS9 NW7 BA)
- Rotary encoder on the front panel
- Built-in internal protection safety features to maximize generator’s lifetime
- RS232 Interface, optional USB or Ethernet
- Dimensions: H 17.7 x W 48.2 x D 50.0
- Power Input 1300 W max.
- Efficiency up to 60%
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### Electrical Data

**Input**
- Line Input: 230 V AC
- Line Frequency: 50 Hz / 60 Hz
- Input Power: 1.3 kW max

**Output**
- Output Power: 0-500 W adjustable in 0.2-W-steps
- Output Frequency: 2400-2500 MHz adjustable in 1 MHz-steps

### Control / Monitoring

- Control Unit: Rotary encoder on the front panel
- Interface: RS232, optional USB or Ethernet

### Cooling

**Water Cooling**
- Coupling: 2 plugs (NW7.2; 9 mm; K5S9 NW7 BA)
- Waterflow: 2.5 - 12.5 l/min
- Water temperature: +18°C to +29°C (non condensing)
- Water quality: clear water

### Mechanical Data

- Rack Dimensions: 19" x 4HE
- Rack Total Width: 482 mm
- Rack Total Height: 177 mm
- Depth with Connectors applied: 500 mm
- Total Weight: approx. 18 kg

### Ambient Conditions

- Use: Indoor use only
- Operation mode: Continuous mode
- Ambient Temperature: Max. 40°C operating
- Relative Humidity: non condensing
- Efficiency: up to 60%

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