

Monomode Applicator 500 W, 2400..2500 MHz

Based on Solid State Microwave Technology



Application

Laboratory device for homogenous heating (up to 1000° C) of diverse ceramic products like silicon carbide in a monomode applicator that used in a measurement device for the reliable and very accurate detection of transition metal like mercury (quicksilver).

Technical Data

| | |
|------------------------------|---|
| Type of Microwave Generators | Solid State |
| Power | 500 W adjustable in 1 W - steps |
| Frequency | 2400..2500 MHz adjustable in 1 MHz - steps |

Water Cooling

| | |
|-------------------------|--------------------------|
| Cooling water flow rate | Minimal 4 l/min. |
| Water temperature | 20° - 25° C |
| Inlet pressure | min. 3.5 bar, max. 5 bar |

Dimensions

| | |
|-----------------------|------------------------|
| Outer dimension WxHxD | ca. 500 x 420 x 580 mm |
|-----------------------|------------------------|

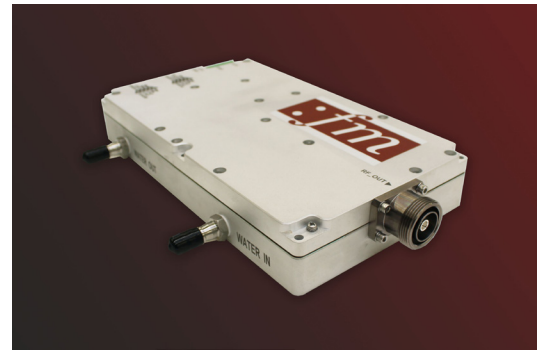
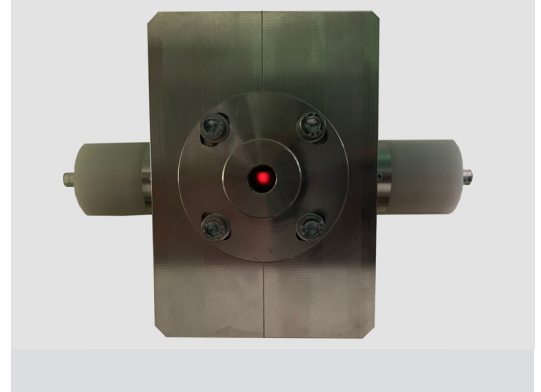
Features

The loaded tube to be heated is heated homogeneously to 800 °C in 2-3 minutes without movement.

Control unit, which allows presetting of the microwave power in 1 W steps, automatic frequency shift from 2.4 to 2.5 GHz for field homogenization and reflection measurement.

Professional simulation using the software CST-STUDIO.

IR-Pyrometer, which measures the quartz glass surface.



Solid State RF Generator 500 W 2450 MHz