

500 MHz 3.2mm Double Resonance HX MAS Gradient Solids Probe

Part Number:

SW50P38P01

Description:

A high performance Chemagnetics™ probe which has a double tuned circuit for two channel operation. For high frequency operation the probe can be used for 1H decoupling or detection and is tunable to 19F. This probe incorporates leading edge RF technology with the patented PENCIL™ rotor module design. This probe can be used with wide bore magnets. The probe is equipped with pfg capability, with the gradient axis being colinear with the sample spinning axis.

Features:

- 3.2mm Vespel Spinning Module
- T3™ RF System
- 31P to 15N Observe Channel
- Fiberoptic Spin Sensor

Requires:

Requires Solids Upper Stack MSOLSTACK1 for VT operation.

Requires Varian Gradient amplifier for gradient operation.

Specifications:

These specifications are valid for new UnityINOVA and InfinityPlus systems. Probe performance systems may be lower.

Observe Pulse widths:

$$^1\text{H} \leq 8\mu\text{s}$$

$$^{13}\text{C} \leq 8\mu\text{s}$$

$$^{31}\text{P} \leq 8\mu\text{s}$$

$$^{15}\text{N} \leq 10\mu\text{s}$$

$$^2\text{H} \leq 9\mu\text{s}$$

Decouple Bandwidth:

$$^1\text{H} = 40 \text{ kHz}$$

Signal/Noise:

$$^{13}\text{C} \text{ Sensitivity: } \geq 40:1$$

Spinning Speed:

15000 Hz

Variable Temperature Range:

-25 to +50°C

Sample Volume:

20µl

Gradient Strength:

Maximum gradient strength is 50 G/cm for 10msec