

# Agilent Millipede Probes

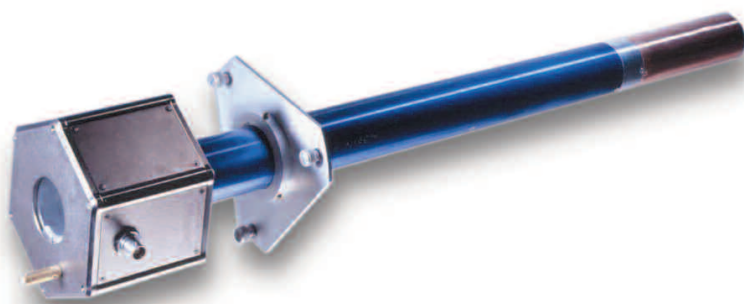
Data Sheet

## Introduction

The Agilent Millipede coil allows the use of high-field vertical magnets for imaging. It makes efficient use of space inside the magnet, which is critical for micro-imaging applications, particularly preclinical studies.

## Key Benefits

- **Interpret data accurately**—The unique Millipede design reduces the intensity of flip-angle related image artifacts, eliminating error in data interpretation.
- **Get results faster**—Optimized circuit design coupled with quadrature detection yields superior signal-to-noise ratio, reducing the acquisition time.
- **Image a variety of sample sizes**—Improved RF homogeneity allows placing samples closer to the coil edges, enabling imaging of samples as large as rodents in a vertical bore magnet.



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## Specifications and Ordering Information

<sup>1</sup>H Millipede probe specifications and product numbers are summarized in Table 1. Agilent Technologies also provides a variety of double-tuned Millipede probes upon special request. Contact your local Agilent sales representative for pricing and probe availability.

**Table 1**  
**<sup>1</sup>H Millipede Probe Specifications and Product Numbers.**

Frequency MHz	Clean id mm	od mm	Pw90** us	S/N*	Part number
300	20	55	35	150:1	S192255100
300	30	55	50	150:1	S192255500
300	40	55	100	80:1	S190893500
400	20	55	35	200:1	S192255200
400	30	55	50	200:1	S192255600
400	40	55	100	100:1	S190896200
500	20	55	35	250:1	S192255300
500	30	55	50	250:1	S192255700
500	40	55	100	120:1	S190896500
600	20	55	35	300:1	S192255400
600	30	55	50	300:1	S192255800
600	40	55	100	150:1	S190896800

\*Signal to noise (S/N) was determined using a polypropylene sphere filled with 0.005 M CuSO<sub>4</sub> aqueous solution. Measurement parameters are 50 mm × 50 mm FOV with 38 mm sphere (40 mm probe), 25 mm sphere (30 mm probe), and 30 mm × 30 mm FOV with 13 mm sphere (20 mm probe).

\*\*Requires system configured with 100 W high band amplifier. Measured with mineral oil sample: 32 mm id (40 mm probe), 24 mm id (30 mm probe), and 16 mm id (20 mm probe).

For all the above probes, the homogenous region is 80% of the coil id.

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Product specifications and descriptions in this document are subject to change without notice.

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