# Tap300-AI

# AFM Probe Specifications:

# **AFM Tip**

SHAPE	HEIGHT	SETBACK	RADIUS	HALF CONE ANGLE
Rotated	17 μm	15 µm	10 nm	20°-25° along cantilever axis, 25°-30°
	(15 - 19 µm)*	(10 - 20 μm)*		from side, 10° at the apex

#### **AFM Cantilever**

Beam		
40 N/m (20 - 75 N/m)*		
300 kHz (200 - 400 kHz)*		
125 μm (115 - 135 μm)*		
30 μm (25 - 35 μm)*		
4 µm (3 - 5 µm)*		
	40 N/m (20 - 75 N/m)* 300 kHz (200 - 400 kHz)* 125 μm (115 - 135 μm)* 30 μm (25 - 35 μm)*	

<sup>\*</sup> typical range

## Coating

Aluminium reflex coating on detector side of the cantilever, 30 nm thick

## **Alignment Grooves**

This product features alignment grooves on the back side of the holder chip.

#### Additional Info

Monolithic silicon AFM probe for high frequency non-contact and tapping mode operation.

The rotated AFM tip allows for more symmetric representation of high sample features. The consistent AFM tip radius ensures good resolution and reproducibility.

The AFM holder chip fits most commercial AFM systems as it is industry standard size.