

SHR300

AFM Tip

SHAPE	HEIGHT	SETBACK	RADIUS
Supersharp	17 μm (15 – 19 μm)*	15 μm (10 – 20 μm)*	1 nm

AFM Cantilever

Cantilever A	
Shape	Beam
Force Constant	40 N/m (20 – 75 N/m)*
Resonance Frequency	300 kHz (200 – 400 kHz)*
Length	125 μm (115 – 135 μm)*
Width	30 μm (25 – 35 μm)*
Thickness	4 μm (3 – 5 μm)*

* typical range

Coating

70nm gold on both sides of the AFM cantilever. Carbon spike not coated!

Alignment Grooves

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

Additional Info

Single carbon spike on silicon apex!

The SHR300 is based on BudgetSensors' well established [Tap300GB-G](#) AFM probe and it is suitable for high resolution, high frequency non-contact / tapping mode operation

This AFM probe features a single sharp hydrophobic diamond-like carbon extratip at the apex of gold coated silicon etched AFM probe. There are no additional smaller extratips near the main one, just one well defined extratip.

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