

# SHR150

## AFM Tip

SHAPE	HEIGHT	SETBACK	RADIUS
Supersharp	17 $\mu\text{m}$ (15 – 19 $\mu\text{m}$ )*	15 $\mu\text{m}$ (10 – 20 $\mu\text{m}$ )*	1 nm

## AFM Cantilever

Cantilever A	
Shape	Beam
Force Constant	5 N/m (1.5 – 15 N/m)*
Resonance Frequency	150 kHz (75 – 225 kHz)*
Length	125 $\mu\text{m}$ (115 – 135 $\mu\text{m}$ )*
Width	25 $\mu\text{m}$ (20 – 30 $\mu\text{m}$ )*
Thickness	2.1 $\mu\text{m}$ (1.1 – 3.1 $\mu\text{m}$ )*

\* 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 SHR150 is based on BudgetSensors' well established [Tap150GB-G](#) AFM probe and it is suitable for high resolution soft 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.