

# ContDLC

## AFM Tip

SHAPE	HEIGHT	SETBACK	RADIUS	HALF CONE ANGLE
Rotated	17 $\mu\text{m}$ (15 – 19 $\mu\text{m}$ )*	15 $\mu\text{m}$ (10 – 20 $\mu\text{m}$ )*	15 nm	20°–25° along cantilever axis, 25°–30° from side, 10° at the apex

## AFM Cantilever

Cantilever A	
Shape	Beam
Force Constant	0.2 N/m (0.07 – 0.4 N/m)*
Resonance Frequency	13 kHz (9 – 17 kHz)*
Length	450 $\mu\text{m}$ (440 – 460 $\mu\text{m}$ )*
Width	50 $\mu\text{m}$ (45 – 55 $\mu\text{m}$ )*
Thickness	2 $\mu\text{m}$ (1 – 3 $\mu\text{m}$ )*

\* typical range

## Coating

Diamond–Like–Carbon coating on tip side of the cantilever, 15nm thick;Aluminum 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 contact mode and lateral force mode operation.

**High durability and hydrophobicity** due to **Diamond–Like–Carbon coating** on tip side of the AFM cantilever.

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.