Cantilever Data	Value	Range*
Resonance Frequency	320 kHz	250 - 390 kHz
Force Constant	42 N/m	21 - 78 N/m
Length	125 µm	120 - 130 μm
Mean Width	30 µm	25 - 35 μm
Thickness	4 μm	3.5 - 4.5 μm

NanoWorld® Pointprobe® NCH probes are designed for non-contact or tapping mode imaging. This AFM probe type combines high operation stability with outstanding sensitivity and fast scanning ability.

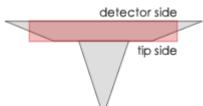
All SPM and AFM probes of the Pointprobe® series are made from monolithic silicon which is highly doped to dissipate static charge. They are chemically inert and offer a high mechanical Q-factor for high sensitivity. The AFM tip is shaped like a polygon based pyramid with a typical height of 10 - 15 μ m.

For enhanced resolution of nanostructures and microroughness we have developed an advanced AFM tip manufacturing process leading to unrivalled sharpness of the SuperSharpSilicon TM tip.

This AFM probe offers unique features:

- Typical AFM tip radius of curvature of 2 nm
- Guaranteed AFM tip radius of curvature 5 nm (yield >80%)
- Half cone angle < 10° at the last 200 nm of the AFM tip

For applications requiring lower resonance frequencies or an AFM cantilever length exceeding 125 μm we recommend our Pointprobe® type SSS-NCL.



A trapezoidal cross section of the

AFM cantilever and therefore 30% wider (e.g. NCH) AFM cantilever detector side result in easier and faster laser adjustment. Additionally, because there is simply more space to place and reflect the laser beam, a higher SUM signal is reached.

Tip shape: Supersharp

Coating: none

Order Code	Quantity	Data Sheet
SSS-NCH-10	10	yes
SSS-NCH-20	20	yes
SSS-NCH-50	50	no