

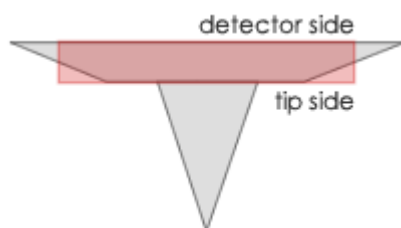
Cantilever Data	Value	Range*
Resonance Frequency	320 kHz	250 - 390 kHz
Force Constant	42 N/m	21 - 78 N/m
Length	125 μm	120 - 130 μm
Mean Width	30 μm	25 - 35 μm
Thickness	4 μm	3.5 - 4.5 μm

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 μm .

Additionally, this AFM probe offers typical tip radius of curvature of less than 8 nm.

For applications requiring lower resonance frequencies or a AFM cantilever length exceeding 125 μm we recommend our Pointprobe® type [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.

Coating: none

Order Code	Quantity	Data Sheet
NCH-10	10	yes
NCH-20	20	yes
NCH-50	50	no
NCH-W	380	yes