

PointProbe® Plus Non-Contact / Tapping Mode - High Resonance Frequency

The PointProbe® Plus (PPP) combines high application versatility and compatibility with most commercial SPMs. The typical AFM tip radius of less than 7 nm and the minimized variation in AFM tip shape provide reproducible images and enhanced resolution.

NANOSENSORS™ PPP-NCH AFM probes are designed for non-contact mode or tapping mode AFM (also known as: attractive or dynamic mode). This type of AFM probe combines high operation stability with outstanding sensitivity and fast scanning ability.

The AFM probe offers unique features:

- guaranteed AFM tip radius of curvature < 10 nm
- AFM tip height 10 - 15 µm
- highly doped silicon to dissipate static charge
- chemically inert
- high mechanical Q-factor for high sensitivity

This AFM probe features alignment grooves on the back side of the holder chip. These grooves fit to the NANOSENSORS Alignment Chip.

Cantilever data:

Property	Nominal Value	Specified Range
Resonance Frequency [kHz]	330	204 - 497
Force Constant [N/m]	42	10 - 130
Length [µm]	125	115 - 135
Mean Width [µm]	30	22.5 - 37.5
Thickness [µm]	4	3 - 5

Order codes and shipping units:

Order Code	AFM probes per pack	Data sheet
PPP-NCH-10	10	of all probes
PPP-NCH-20	20	of all probes
PPP-NCH-50	50
PPP-NCH-W	380	of up to 32 probes