Cantilever Data	Value	Range*
Resonance Frequency	75 kHz	58 - 97 kHz
Force Constant	2.8 N/m	1.4 - 5.8 N/m
Length	240 μm	235 - 245 μm
Mean Width	35 μm	30 - 40 μm
Thickness	3 µm	2.5 - 3.5 μm

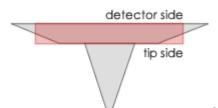
positioning through maximized AFM tip visibility

NanoWorld® Arrow[™] FM probes are designed for Force Modulation Mode imaging. The Force Constant of the FM type fills the gap between Contact and Non-Contact AFM probes. Furthermore Non-Contact / TappingMode[™] imaging is possible with this AFM probe.

All SPM and AFM probes of the Arrow[™] 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. These AFM probes feature a rectangular AFM cantilever with a triangular free end and a tetrahedral AFM tip with a typical height of $10 - 15 \, \mu m$.

Additionally, this AFM probe offers an AFM tip radius of curvature of less than 10 nm.

The unique Arrow[™] shape with the AFM tip position at the very end of the AFM cantilever allows easy positioning of the AFM tip on the area of interest.



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: Arrow Coating: none

Order Code	Quantity	Data Sheet
ARROW-FM-10	10	Nominal values
ARROW-FM-20	20	Nominal values
ARROW-FM-50	50	Nominal values
ARROW-FM-W	380	Nominal values