

Cantilever Data	Value
Shape	Triangle
Resonance Frequency	67 kHz
Force Constant	0.32 N/m
Length	100 μm
Mean Width	13.5 μm
Thickness	500 nm

Product Description

Leading edge in sharpness and durability

NanoWorld® Pyrex-Nitride PNP-TRS probes are designed for various imaging applications in contact or dynamic mode and can also be used for ScanAsyst®** mode in air.

The Pyrex-Nitride TRS probes have a single silicon nitride AFM cantilever with a very low force constant and an integrated oxide sharpened, pyramidal AFM tip with a height of 3.5 μm . The AFM tip is located 4 μm behind the free end of the AFM cantilever. The AFM probe series features a support chip that is made of Pyrex.

All chips are pre-separated prior to shipment and come in Gel-Pak containers.

The typical AFM tip radius of curvature is below 10 nm.

Tip shape: Pyramid
Coating: Reflective Gold

Gold Reflex Coating

The gold reflex coating consists of a 70 nm thick gold layer deposited on the detector side of the AFM cantilevers which enhances the reflectance of the laser beam. Furthermore it prevents light from interfering within the AFM cantilever.

As the coating is almost stress-free the bending of the AFM cantilever due to stress is less than 2 degrees.

Order Code	Quantity	Data Sheet
PNP-TRS-20	20	yes
PNP-TRS-50	50	yes