QUANTUM Series

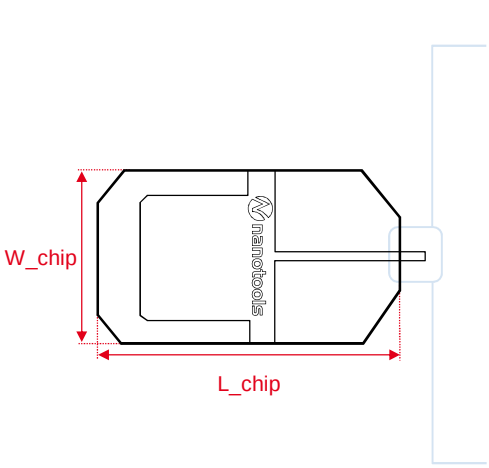
Provided with
TrueDimensions
Online access to key probe parameters for every individual tip

Part number	NT_QUANTUM_v0010		NT_QUANTUM_v0020	
	QUANTUM-PRO		QUANTUM-UHF	
Tip				
Length / l	6000 nm	(±500 nm)	6000 nm	(±500 nm)
Sharpness / r	5 nm	(5-6 nm)	7 nm	(<10 nm)
Tilt compensation / θ	12°	(±1°)	12°	(±1°)
Cantilever				
Material	Quartz		Quartz	
Shape	NT-Quantum-Pro		NT-Quantum-UHF	
Length / L	30 µm		35 µm	
Width / W	20 µm		25 µm	
Thickness / T	1.25 µm		1.65 µm	
Force constant* / k	18 N/m	(15-25 N/m)	35 N/m	(30-45 N/m)
Resonance frequency* / f	1.2 MHz	(1.1-1.4 MHz)	1.2 MHz	(1.1-1.4 MHz)
Tip side coating	none		none	
Back side coating	reflex		reflex	
Chip				
Length / L_chip	3400 µm		3400 µm	
Width / W_chip	1500 µm		1500 µm	
Thickness / T_chip	315 µm		315 µm	
Alignment grooves	no		no	

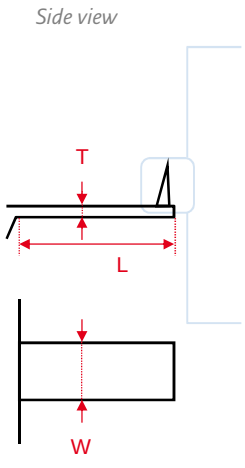
QUANTUM
carbon AFM probes

- Consistent Tuning
- Consistent Sharpness
- Carbon durability

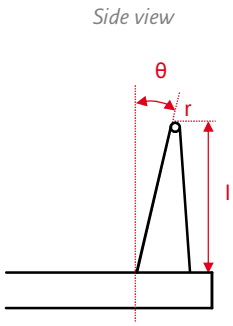
*n/a: specification not applicable for this product | *Values are calculated from the (measured) cantilever geometry. Actual values of >90% of all probes are guaranteed to be within the specified range.*



Chip



Cantilever



Tip

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