

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



	MSS 3-Star	MSS 4-Star	MSS 5-Star
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Part number	NT_MSS-3S_v0010	NT_MSS-4S_v0010	NT_MSS-5S_v0010
Tip			
Material	HDC/DLC	HDC/DLC	HDC/DLC
Length / l	150 nm (±25 nm)	100 nm (100-150 nm)	80 nm (±10 nm)
Width [1] / d1	12 nm (12-14 nm)	10 nm (8-10 nm)	8 nm (7-8 nm)
Half cone angle / Φ	<7° (AR>4)	<6° (AR>5)	<5° (AR>6)
Sharpness (radius) / r	4 nm (3-4 nm)	<2 nm (≤2 nm)	<2 nm (≤2 nm)
Tilt compensation / θ	12° (±1°)	12° (±1°)	12° (±1°)
Total tip height / TH	15 μm (10-15 μm)	15 μm (10-15 μm)	15 μm (10-15 μm)
Tip set back / TSB	15 μm (5-25 μm)	15 μm (5-25 μm)	15 μm (5-25 μm)
Cantilever			
Material	Si	Si	Si
Shape	NT-FM	NT-FM	NT-FM
Length / L	225 μm (±25 μm)	225 μm (±25 μm)	225 μm (±25 μm)
Width / W	28 μm (±5 μm)	28 μm (±5 μm)	28 μm (±5 μm)
Thickness / T	3 μm (±0.5 μm)	3 μm (±0.5 μm)	3 μm (±0.5 μm)
Force constant [2] / k	2.8 N/m (1-5 N/m)	2.8 N/m (1-5 N/m)	2.8 N/m (1-5 N/m)
Resonance frequency [2] / f	75 kHz (±25 kHz)	75 kHz (±25 kHz)	75 kHz (±25 kHz)
Tip side coating	none	none	none
Back side coating	reflex	reflex	reflex
Chip			
Length / L_chip	3400 μm	3400 μm	3400 μm
Width / W_chip	1600 μm	1600 μm	1600 μm
Thickness / T_chip	315 μm	315 μm	315 μm
Alignment grooves	yes	yes	yes

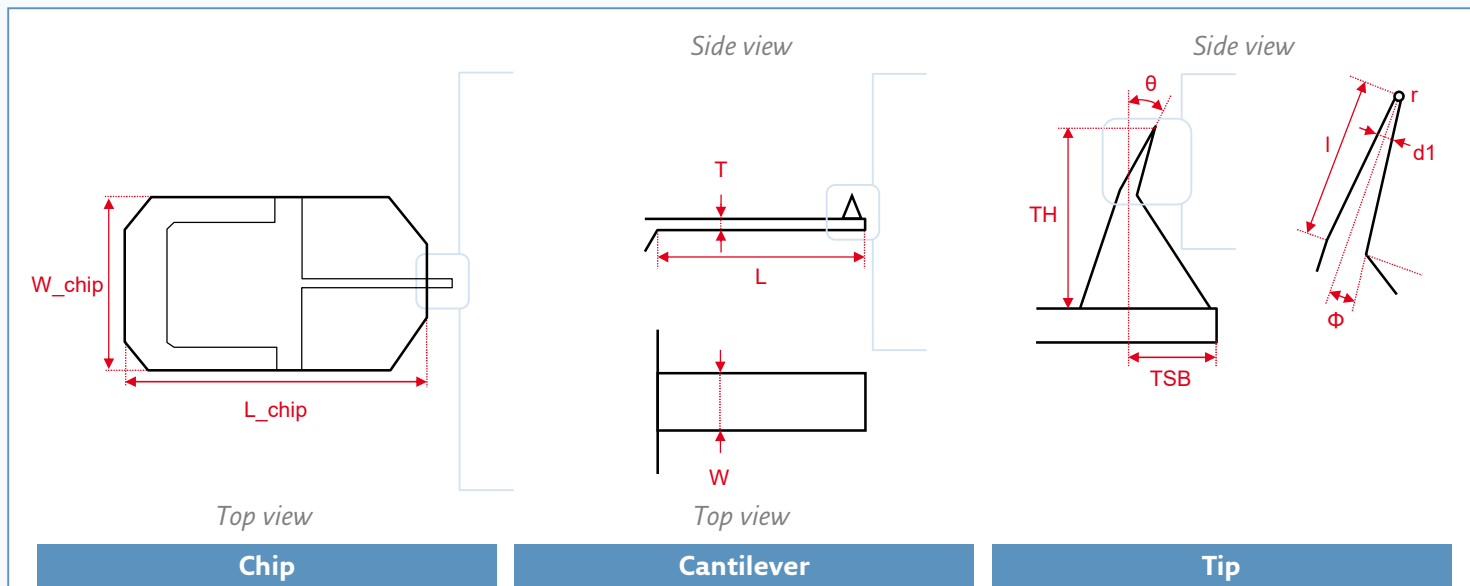
Also available

Type	d1	k	Part number
MSS 3-Star NCH	12 nm	40 N/m	NT_MSS-3S_v0020
MSS 4-Star NCH	10 nm	40 N/m	NT_MSS-4S_v0020
MSS 5-Star NCH	8 nm	40 N/m	NT_MSS-5S_v0020



- Consistently Super Sharp
- Controlled length and width
- Diamond-like durability

[1] measured at 50 nm from tip apex | [2] Resonance frequency f extracted from LDV measurements; cantilever stiffness k calculated from the (measured) cantilever geometry. Actual values of >90% of all probes are guaranteed to be within the specified range. | n/a: specification not applicable for this product.



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