

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



	MCNT-100™	MCNT-150™
Part number	NT_CNT100_v0010	NT_CNT150_v0010
Tip		
Material	HDC/DLC	HDC/DLC
Length / l	100 nm (±20 nm)	150 nm (140-150 nm)
Width / d	10 nm [1] (±2 nm)	10 nm [2] (±2 nm)
Half cone angle / Φ	n/a	n/a
Sharpness (radius) / r	2 nm (<5 nm)	2 nm (<5 nm)
Tilt compensation / θ	3° (±0.5°)	3° (±0.5°)
Total tip height / TH	15 μm (10-15 μm)	15 μm (10-15 μm)
Tip set back / TSB	15 μm (5-25 μm)	15 μm (5-25 μm)
Cantilever		
Material	Si	Si
Shape	NT-RTESPA	NT-RTESPA
Length / L	120 μm (±5 μm)	120 μm (±5 μm)
Width / W	30 μm (±2 μm)	30 μm (±2 μm)
Thickness / T	4.4 μm (±0.5 μm)	4.4 μm (±0.5 μm)
Force constant [3] / k	40 N/m (±20 N/m)	40 N/m (±20 N/m)
Resonance frequency [3] / f	320 kHz (±50 kHz)	320 kHz (±50 kHz)
Tip side coating	none	none
Back side coating	reflex	reflex
Chip		
Length / L_chip	3400 μm	3400 μm
Width / W_chip	1600 μm	1600 μm
Thickness / T_chip	315 μm	315 μm

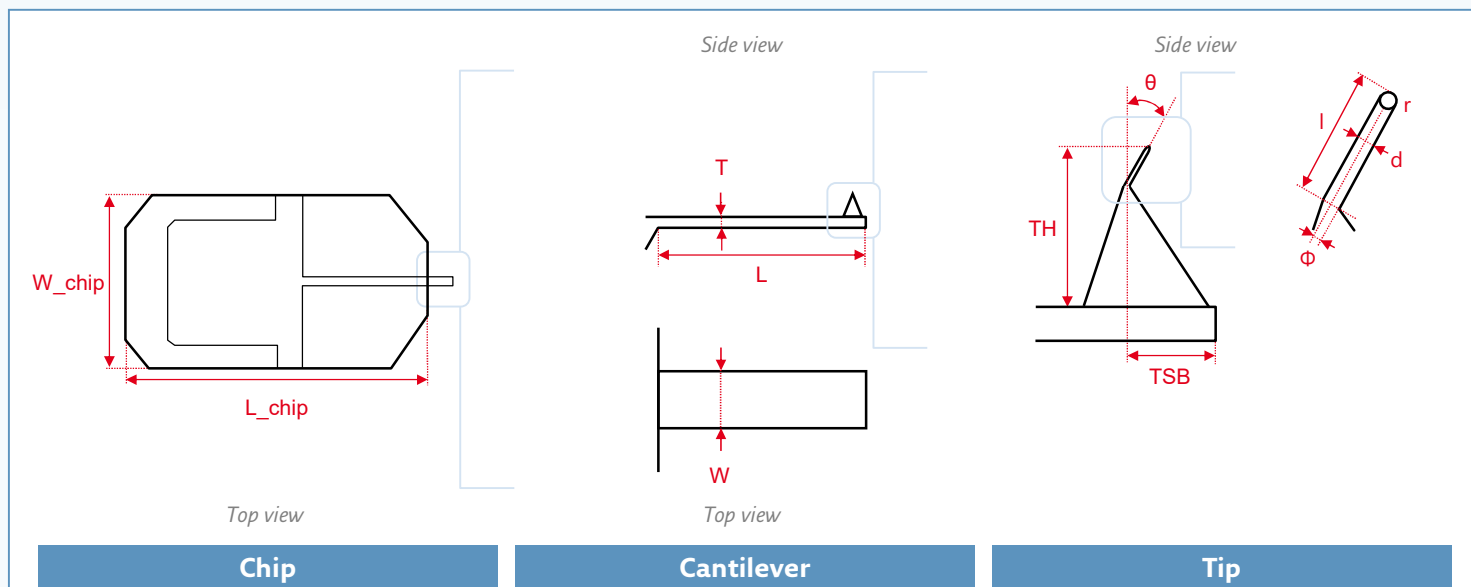
Also available

Type	l	d	θ	Part number
MCNT-100™ 12 deg	100 nm	10 nm	12°	NT_CNT100_v0050
MCNT-150™ 12 deg	150 nm	10 nm	12°	NT_CNT150_v0040
MCNT-300™	300 nm	18 nm	3°	NT_CNT300_v0010
MCNT-300™ 12 deg	300 nm	18 nm	12°	NT_CNT300_v0030
MCNT-400™	400 nm	22 nm	3°	NT_CNT400_v0010
MCNT-400™ 12 deg	400 nm	22 nm	12°	NT_CNT400_v0030
MCNT-500™	500 nm	30 nm	3°	NT_CNT500_v0010
MCNT-500™ 12 deg	500 nm	30 nm	12°	NT_CNT500_v0030

- Consistent shape
- Controlled orientation
- Carbon durability



[1] measured at 70 nm from tip apex | [2] measured at 100 nm from tip apex | n/a: specification not applicable for this product
[3] 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.



For more information, visit www.nanotools.com

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