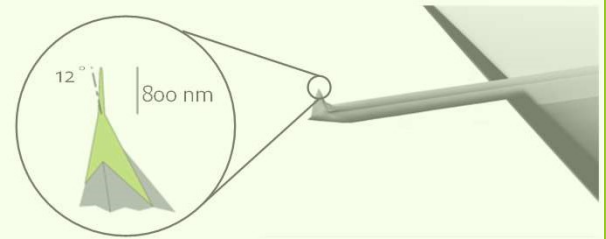


## EBD-HAR

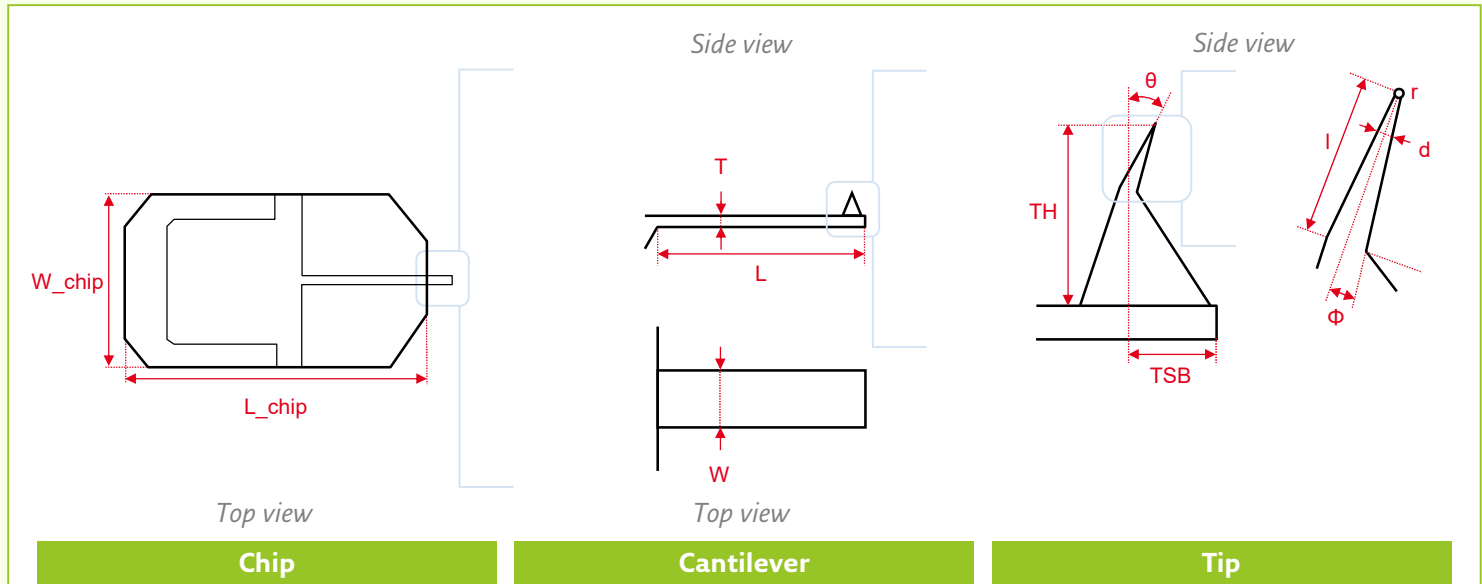
## EBD-HAR

Part number	NT_EBD_v0070
<b>Tip</b>	
Material	HDC/DLC
Length / l	800 nm (> 600 nm)
Width / d	n/a
Half cone angle / $\Phi$	$<4^\circ$ (AR >8)
Sharpness (radius) / r	7 nm (< 10 nm)
Tilt compensation / $\theta$	$12^\circ$
Total tip height / TH	15 $\mu\text{m}$ (10-15 $\mu\text{m}$ )
Tip set back / TSB	15 $\mu\text{m}$ (5-25 $\mu\text{m}$ )
<b>Cantilever</b>	
Material	Si
Shape	NCH
Length / L	125 $\mu\text{m}$
Width / W	30 $\mu\text{m}$
Thickness / T	4 $\mu\text{m}$
Force constant <sup>[1]</sup> / k	40 N/m
Resonance frequency <sup>[1]</sup> / f	330 kHz
Tip side coating	none
Back side coating	none
<b>Chip</b>	
Length / L_chip	3400 $\mu\text{m}$
Width / W_chip	1600 $\mu\text{m}$
Thickness / T_chip	315 $\mu\text{m}$
Alignment grooves	no



- Consistent dimensions
- Controlled orientation
- Diamond-like durability

[1] 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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