

SuperSharp Standard

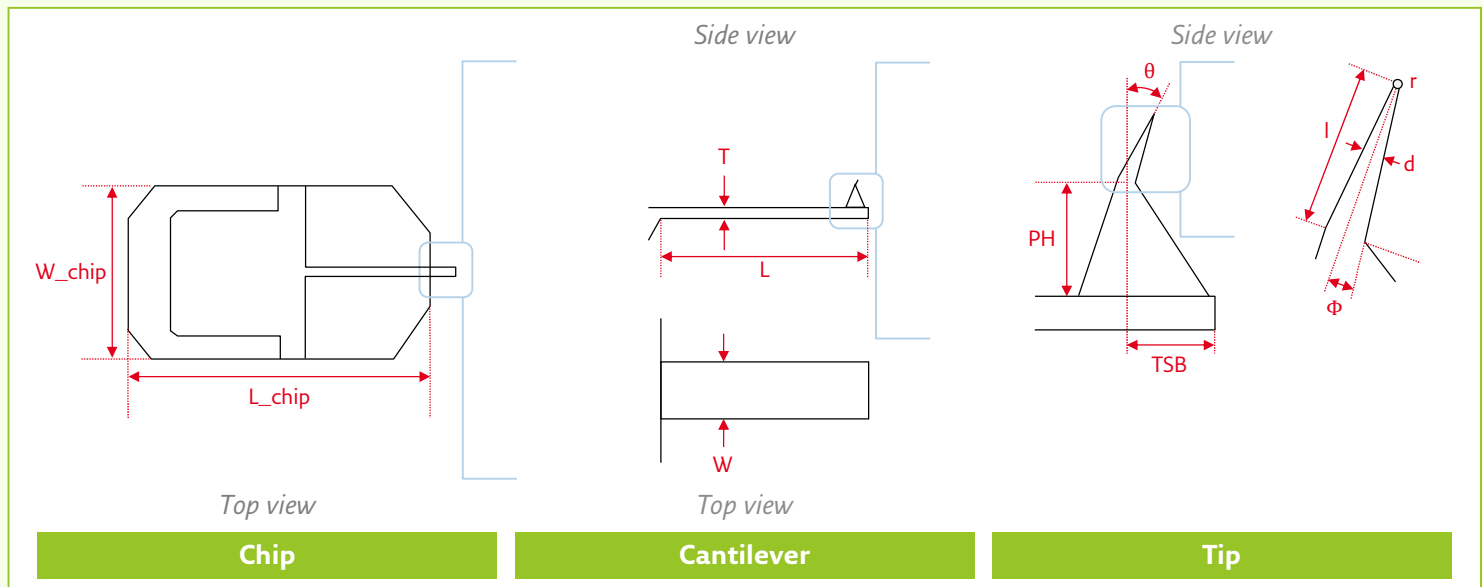
SuperSharpStandard-NCHR SuperSharpStandard-FMR

Part Number	NT_EBD-SSS_voo1o	NT_EBD-SSS_voo2o
Tip		
Material	HDC/DLC	HDC/DLC
Shape	Conical	Conical
Length / l	n/a	n/a
Diameter / d	n/a	n/a
Sharpness / r	2 nm (<5 nm)	2 nm (<5 nm)
Pyramid height / PH	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	NCHR	FMR
Length / L	125 µm	225 µm
Width / W	30 µm	28 µm
Thickness / T	4 µm	3 µm
Force constant ^[1] / k	40 N/m	2.8 N/m
Resonance frequency ^[1] / f	330 kHz	75 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
Alignment grooves	yes	yes

- Consistent sharpness
- Ultrahigh resolution
- 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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