

Green line

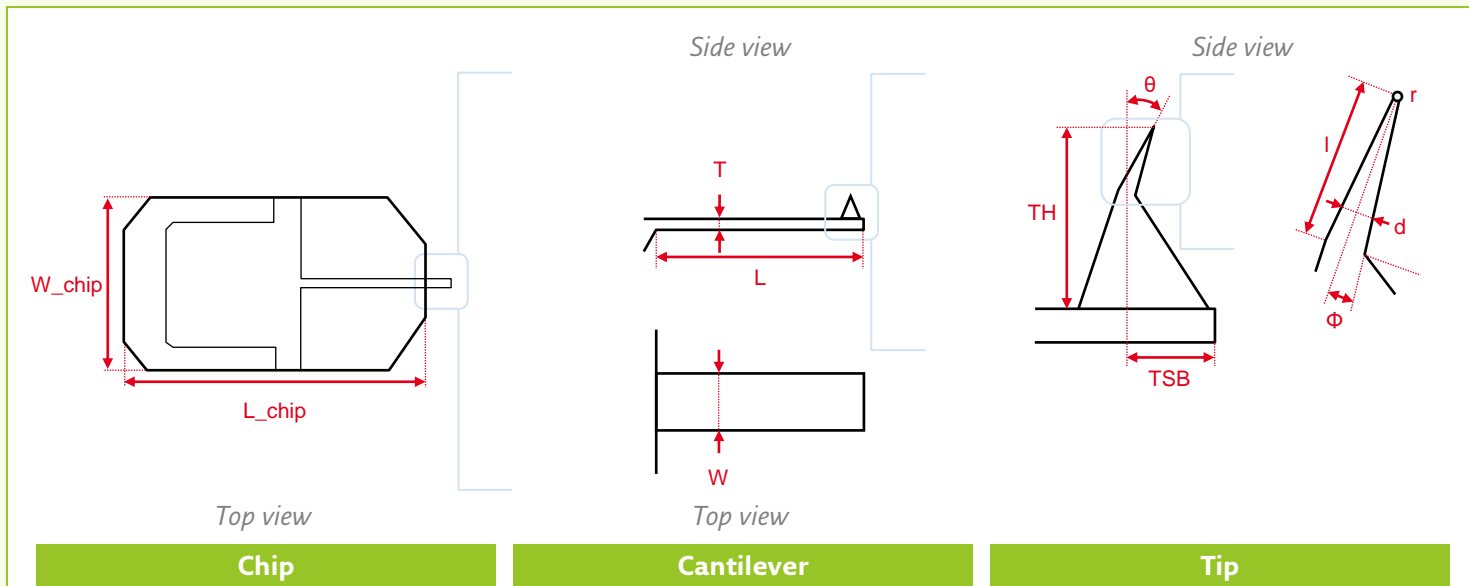
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Starter Probe Kit # 1

General Purpose

	EBD-NCHR	SuperSharp Standard-FMR	EBD-CONTR	QUANTUM-PRO	QUANTUM-UHF
Tip					
Material	HDC/DLC	HDC/DLC	HDC/DLC	HDC/DLC	HDC/DLC
Shape	conical	conical	conical	conical	conical
Tip length / l	n/a	n/a	n/a	6 μm	6 μm
Diameter / d	n/a	n/a	n/a	n/a	n/a
Half cone angle / Φ	n/a	n/a	n/a	n/a	n/a
Radius / r	7 nm	2-3 nm	7 nm	5 nm	7 nm
Tilt compensation / θ	n/a	n/a	n/a	12°	12°
Tip height / TH	15 μm	15 μm	15 μm	6 μm	6 μm
Tip set back / TSB	15 μm	15 μm	15 μm	n/a	n/a
Cantilever					
Material	Si	Si	Si	Quartz	Quartz
Shape	NCHR	FMR	CONTR	Rectangular	Rectangular
Length / L	125 μm	225 μm	450 μm	30 μm	35 μm
Width / W	30 μm	28 μm	50 μm	20 μm	25 μm
Thickness / T	4 μm	3 μm	2 μm	1.25 μm	1.65 μm
Force constant / k	40 N/m	2.8 N/m	0.2 N/m	18 N/m	40 N/m
Resonance Frequency / f	330 kHz	75 kHz	13 kHz	1.2 MHz	1.2 MHz
Coating					
Tip side	none	none	none	none	none
Back side	reflex	reflex	reflex	reflex	reflex
Chip					
Length / L_Chip	3400 μm	3400 μm	3400 μm	3400 μm	3400 μm
Width / W_Chip	1600 μm	1600 μm	1600 μm	1600 μm	1600 μm
Thickness / T_Chip	315 μm	315 μm	315 μm	315 μm	315 μm
Alignment grooves	yes	yes	yes	no	no

Resonance frequency *f* extracted from LDV measurements | Cantilever stiffness *k* calculated from the (measured) cantilever geometry.
 n/a: specification not applicable for this product | Actual values of >90% of all probes are guaranteed to be within the specified range.



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