

Green line

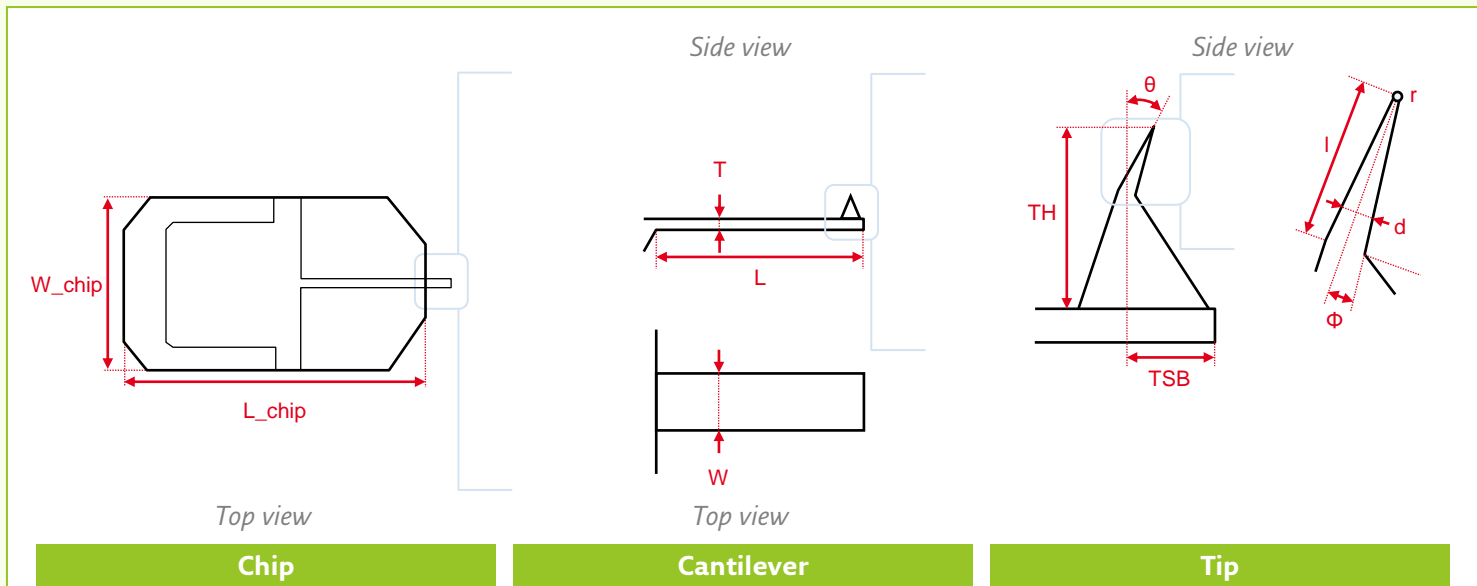
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Starter Probe Kit # 2

Life Science

	biotool high-resolution	biotool cell XXL	EBD-CONTAu	QUANTUM-BIO	QUANTUM-AC10 12deg
Tip					
Material	HDC/DLC	HDC/DLC	HDC/DLC	HDC/DLC	HDC/DLC
Shape	conical	conical	conical	conical	conical
Tip length / l	200 nm	15 µm	n/a	6 µm	2.5 µm
Diameter / d	n/a	n/a	n/a	n/a	n/a
Half cone angle / Φ	n/a	6°	n/a	n/a	n/a
Radius / r	2 nm	25 nm	7 nm	5 nm	6 - 7 nm
Tilt compensation / θ	n/a	12°	n/a	12°	12°
Tip height / TH	7 µm	15 µm	15 µm	6 µm	2.5 µm
Tip set back / TSB	7 µm	7 µm	15 µm	n/a	n/a
Cantilever					
Material	Quartz	Quartz	Si	Quartz	Quartz
Shape	Rectangular	Rectangular	CONTAu	Rectangular	Rectangular
Length / L	60 µm	60 µm	450 µm	30 µm	7 µm
Width / W	25 µm	25 µm	50 µm	20 µm	2 µm
Thickness / T	0.4 µm	0.4 µm	2 µm	1.25 µm	0.08 µm
Force constant / k	0.1 N/m	0.1 N/m	0.2 N/m	18 N/m	0.15 N/m
Resonance Frequency / f	50 kHz	50 kHz	13 kHz	1.2 MHz	1.2 MHz
Coating					
Tip side	none	none	none	none	none
Back side	Gold reflex	Gold reflex	Gold reflex	Gold reflex	Gold 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	yes	yes

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.



For more information, visit

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