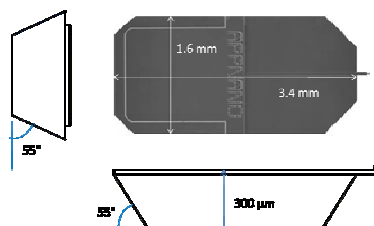


**APPNANO** probes are compatible with most commercially available SPMs. These probes are nanofabricated using highly doped single crystal silicon with unparalleled reproducibility, robustness and sharpness for consistent high resolution imaging capabilities.

The **ACLA-TL** is a **TIPLESS Cantilever** with specifications similar to our **ACLA probes**. These cantilevers are designed for Non-Contact / Tapping Mode / Intermittent Contact / Close Contact applications. The long cantilever allows larger laser clearance .

Handle Chip Specifications	
<b>L x W x T</b>	3.4 mm x 1.6 mm x 300 μm
<b>Alignment Grooves</b>	YES



Cantilever Specifications	
<b>Material</b>	Si
<b>Shape</b>	Rectangular
<b>Front Coating</b>	None
<b>Reflex Side Coating</b>	Al, 30nm ± 5 nm



Parameter	Value		
	Nominal	Minimum	Maximum
<b>Spring Constant (N/m)</b>	45	20	90
<b>Frequency (kHz)</b>	190	145	230
<b>Length (μm)</b>	225	215	235
<b>Width (μm)</b>	40	35	45
<b>Thickness (μm)</b>	8.5	8.0	9.0

Ordering Information	
Part Number	Probes
<b>ACLA-TL-10</b>	10
<b>ACLA-TL-20</b>	20
<b>ACLA-TL-50</b>	50
<b>ACLA-TL-200</b>	200
<b>ACLA-TL-W</b>	410 – 424

**NOTES :**

1. The specification range is **guaranteed**. The values of spring constant and frequency are calculated using mathematical formulation.
2. These probes feature **alignment grooves** compatible with all alignment chips available in the market.
3. Please contact our **Distributor** in your area to **order** the probes.
4. For more technical information , please contact either our distributor in your area or e-mail us directly at [info@appnano.com](mailto:info@appnano.com).

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