**QUANTUM Series**

**Blue line**

**Ultimate consistency. For fast scanning applications.**

<table>
<thead>
<tr>
<th>QUANTUM-PRO</th>
<th>QUANTUM-UHF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part number</strong></td>
<td>NT_QUANTUM_v0010</td>
</tr>
<tr>
<td><strong>Tip</strong></td>
<td></td>
</tr>
<tr>
<td>Length / ( I )</td>
<td>6000 nm (±500 nm)</td>
</tr>
<tr>
<td>Sharpness / ( r )</td>
<td>5 nm (5-6 nm)</td>
</tr>
<tr>
<td>Tilt compensation / ( \theta )</td>
<td>12° (±1°)</td>
</tr>
<tr>
<td><strong>Cantilever</strong></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Quartz</td>
</tr>
<tr>
<td>Shape</td>
<td>NT-Quantum-Pro</td>
</tr>
<tr>
<td>Length / ( L )</td>
<td>30 µm</td>
</tr>
<tr>
<td>Width / ( W )</td>
<td>20 µm</td>
</tr>
<tr>
<td>Thickness / ( T )</td>
<td>1.25 µm</td>
</tr>
<tr>
<td>Force constant* / ( k )</td>
<td>18 N/m (15-25 N/m)</td>
</tr>
<tr>
<td>Resonance frequency* / ( f )</td>
<td>1.2 MHz (1.1-1.4 MHz)</td>
</tr>
<tr>
<td>Tip side coating</td>
<td>none</td>
</tr>
<tr>
<td>Back side coating</td>
<td>reflex</td>
</tr>
<tr>
<td><strong>Chip</strong></td>
<td></td>
</tr>
<tr>
<td>Length / ( L_{\text{chip}} )</td>
<td>3400 µm</td>
</tr>
<tr>
<td>Width / ( W_{\text{chip}} )</td>
<td>1500 µm</td>
</tr>
<tr>
<td>Thickness / ( T_{\text{chip}} )</td>
<td>315 µm</td>
</tr>
<tr>
<td>Alignment grooves</td>
<td>no</td>
</tr>
</tbody>
</table>

n/a: specification not applicable for this product  | *Values are calculated from the (measured) cantilever geometry. Actual values of >90% of all probes are guaranteed to be within the specified range.

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For more information, visit [www.nanotools.com](http://www.nanotools.com)

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Provided with TrueDimensions
Online access to key probe parameters for every individual tip