## Consistency of Calibration Data for the Probe Batch

A consistency of the calibration data was checked for 8 125/40/4 probes, which were taken from the same wafer. The following dynamic parameters were obtained for these probes:

	ω, kHz	Q	<i>k,</i> N/m	IOS, nm/V
1	267.0	$438.18 \pm 12.15$	25.15 ± 0.70	96.77 ± 2.06
2	271.2	434.90 ± 11.69	<b>25.51 ± 0.69</b>	105.06 ± 0.94
3	275.2	477.01 ± 6.18	28.65 ± 0.37	102.96 ± 0.69
4	280.6	419.83 ± 7.41	25.96 ± 0.46	110.89 ± 0.60
5	285.1	461.27 ± 9.72	<b>29.21 ± 0.61</b>	97.72 ± 0.55
6	285.4	368.10 ± 20.03	23.34 ± 1.27	105.63 ± 2.19
7	296.4	443.86 ± 7.76	29.77 ± 0.52	108.94 ± 0.96
8	286.0	469.31 ± 11.12	29.85 ± 0.71	93.27 ± 1.44

For each probe 7-10 measurements were performed and the averaged data are presented above. The average spring constant for these 8 probes is 27.18±2.49 N/m. In other words, for the probes of the same wafer the variations of their spring constant are within the 10% range. The IOS values for each probe are determined with high accuracy (variations are with 2% range), and the IOS changes reported for different probes reflect slightly different laser positioning on these probes. The IOS measurements are specific for a particular microscope, and our data were obtained with a MultiMode device.