

NanoWorld GUARANTEED VALUES

Product overview with guaranteed values for cantilever length, width, thickness, frequency and force constant:

Type	Length Min / μm	Length Max / μm	Width Min / μm	Width Max / μm	Thickness Min / μm	Thickness Max / μm	Frequency Min / kHz	Frequency Max / kHz	Force const. Min / N/m	Force const. Max / N/m	Notes
AR10-NCHR	115	135	22.5	37.5	3	5	204	497	10	130	*1, *3
AR5-NCHR	115	135	22.5	37.5	3	5	204	497	10	130	*1, *3
AR5-NCLR	215	235	30	45	6	8	146	236	21	98	*1, *3
AR5T-NCHR	115	135	22.5	37.5	3	5	204	497	10	130	*1, *3
ARROW-CONT	440	460	37.5	52.5	1	3	6	25	0.02	0.75	*2
ARROW-CONTPt	440	460	37.5	52.5	1	3	6	25	0.02	0.75	*2, *3
ARROW-CONTR	440	460	37.5	52.5	1	3	6	25	0.02	0.75	*2, *3
ARROW-EFM	230	250	27.5	42.5	2	4	40	125	0.63	11	*2, *3
ARROW-FM	230	250	27.5	42.5	2	4	40	125	0.63	11	*2
ARROW-FMR	230	250	27.5	42.5	2	4	40	125	0.63	11	*2, *3
ARROW-NC	150	170	37.5	52.5	3.6	5.6	170	457	20	180	*2
ARROW-NCPt	150	170	37.5	52.5	3.6	5.6	170	457	20	180	*2, *3
ARROW-NCR	150	170	37.5	52.5	3.6	5.6	170	457	20	180	*2, *3
ARROW-TL1	490	510	92.5	107.5	0.5	2.5	2	11	0.006	1	*2
ARROW-TL1Au	490	510	92.5	107.5	0.5	2.5	2	11	0.006	1	*2, *3
ARROW-TL2	490	510	92.5	107.5	0.5	2.5	2	11	0.006	1	*2
ARROW-TL2Au	490	510	92.5	107.5	0.5	2.5	2	11	0.006	1	*2, *3
ARROW-TL8	490	510	92.5	107.5	0.5	2.5	2	11	0.006	1	*2
ARROW-TL8Au	490	510	92.5	107.5	0.5	2.5	2	11	0.006	1	*2, *3
ARROW-UHF	30	40	33	47	0.55	0.85	700	2000	/	/	*4
ARROW-UHF-AuD	30	40	33	47	0.55	0.85	700	2000	/	/	*4
CDT-FMR	215	235	20	35	2	4	65	155	1.5	18.3	*1
CDT-NCHR	115	135	22.5	37.5	3	5	225	610	23	225	*1
CDT-NCLR	215	235	30	45	6	8	155	275	34	142	*1
CONT	440	460	42.5	57.5	1	3	6	21	0.02	0.77	*1
CONTPt	440	460	42.5	57.5	1	3	6	21	0.02	0.77	*1, *3
CONTR	440	460	42.5	57.5	1	3	6	21	0.02	0.77	*1, *3
CONTSC	215	235	40	55	0.1	2	1	57	0.01	1.87	*1
CONTSCR	215	235	40	55	0.1	2	1	57	0.01	1.87	*1, *3
DT-FMR	215	235	20	35	2	4	65	155	1.5	18.3	*1
DT-NCHR	115	135	22.5	37.5	3	5	225	610	23	225	*1
DT-NCLR	215	235	30	45	6	8	155	275	34	142	*1
EFM	215	235	20	35	2	4	45	115	0.5	9.5	*1, *3
FM	215	235	20	35	2	4	45	115	0.5	9.5	*1
FMR	215	235	20	35	2	4	45	115	0.5	9.5	*1, *3
MFMR	215	235	20	35	2	4	45	115	0.5	9.5	*1, *3
NCH	115	135	22.5	37.5	3	5	204	497	10	130	*1
NCHPt	115	135	22.5	37.5	3	5	204	497	10	130	*1, *3
NCHR	115	135	22.5	37.5	3	5	204	497	10	130	*1, *3
NCL	215	235	30	45	6	8	146	236	21	98	*1
NCLPt	215	235	30	45	6	8	146	236	21	98	*1, *3
NCLR	215	235	30	45	6	8	146	236	21	98	*1, *3
NCST	140	160	19.5	34.5	1.8	3.8	75	265	1.2	29	*1
NCSTR	140	160	19.5	34.5	1.8	3.8	75	265	1.2	29	*1, *3
PNP-DB	90	110	35	45	0.425	0.575	30	80	0.16	0.75	*2, *3
	190	210	35	45	0.425	0.575	9	23	0.012	0.09	*2,
PNP-TR	90	110	8.5	18.5	0.425	0.575	40	98	0.05	0.55	*2,
	190	210	23	33	0.425	0.575	10	27	0.02	0.11	*2,
PNP-TR-Au	90	110	8.5	18.5	0.425	0.575	40	98	0.05	0.55	*2
	190	210	23	33	0.425	0.575	10	27	0.02	0.11	*2,
PNP-TRS	90	110	8.5	18.5	0.425	0.575	40	98	0.05	0.55	*2,
	190	210	23	33	0.425	0.575	10	27	0.02	0.11	*2,
PNP-TR-TL	90	110	8.5	18.5	0.425	0.575	40	98	0.05	0.55	*2,
	190	210	23	33	0.425	0.575	10	27	0.02	0.11	*2,
PNP-TR-TL-Au	90	110	8.5	18.5	0.425	0.575	40	98	0.05	0.55	*2,
	190	210	23	33	0.425	0.575	10	27	0.02	0.11	*2,
SEIHR	215	235	25	40	4	6	96	175	5	37	*1, *3
S-MFMR	215	235	20	35	2	4	45	115	0.5	9.5	*1, *3
SSS-NCH	115	135	22.5	37.5	3	5	204	497	10	130	*1
SSS-NCL	215	235	30	45	6	8	146	236	21	98	*1
SSS-SEIH	215	235	25	40	4	6	96	175	5	37	*1
USC-F5-k30	7.5	12.5	4	6	0.64	0.72	3000	7000	10	100	*1
USC-F2-k3	7.5	12.5	4	6	0.24	0.32	1000	4000	1	12	*1
USC-F1.2-k7.3	17	23	9	11	0.63	0.71	850	1750	3.5	15	*1
USC-F1.5-k0.6	5	9	2	4	0.06	0.14	700	3000	0.1	2	*1
USC-F1.2-k0.15	5	9	1	3	0.04	0.12	500	3000	0.03	1.5	*1
USC-F0.3-k0.3	17	23	9	11	0.15	0.23	200	550	0.1	0.9	*1
ZEILR	440	460	47.5	62.5	3	5	19	35	0.6	3.9	*1, *3

- *1 Frequency and force constant are calculated
- *2 Frequency and force constant are simulated
- *3 Coatings are not considered
- *4 Measured Frequency