

NaDiaProbes — All-Diamond AFM Probes Specifications



ND-CTC Series: Conductive

Tip
 Shape: (111) Pyramid
 Height: 5.66 μm
 Radius: 15-30 nm (nominal - guaranteed < 50nm)
 Material: Conductive UNCD® (diamond)

Cantilever
 Tip Setback: 9 μm
 Coating: 60 nm reflective aluminum coating
 Curvature: Typically less than 3 degrees
 Chip: Standard size Pyrex (3.6 x 1.5 x 0.5 mm)

SKU	Chip Image	Cantilever	Force Constant (N/m)		Frequency (kHz)		Length (μm)	Width (μm)	Thickness (μm)	MSRP (pack of 2)
			nominal	range	nominal	range				
ND-CTCR1-2		Short Medium Long	0.35	0.25-0.45	35	20-50	225	30	1	\$249
			0.17	0.10-0.25	17	10-25	325	40	1	
			0.04	0.02-0.05	12	6-20	425	20	1	
ND-CTCR2-2		Short Medium Long	0.23	0.15-0.30	40	20-60	225	20	1	\$249
			0.08	0.05-0.10	12	6-20	425	40	1	
			0.05	0.03-0.07	8	4-16	500	40	1	
ND-CTCT1-2		Short Long	1.28	1.00-1.50	48	25-70	200	25	1	\$249
			0.46	0.30-0.60	24	12-40	300	41	1	
ND-CTCT2-2		Short Long	0.71	0.50-0.95	50	25-75	200	17	1	\$249
			0.04	0.02-0.05	23	12-45	300	23	1	



ND-DYI Series: Dynamic Mode

Tip
 Shape: (111) Pyramid
 Height: 5.66 μm
 Radius: 15-30 nm (nominal - guaranteed < 50nm)
 Material: UNCD (multicrystalline diamond)

Cantilever
 Tip Setback: 9 μm
 Coating: 60 nm reflective aluminum coating
 Curvature: Typically less than 3 degrees
 Chip: Standard size Pyrex (3.6 x 1.5 x 0.5 mm)

SKU	Cantilever	Force Constant (N/m)		Frequency (kHz)		Length (μm)	Width (μm)	Thickness (μm)	MSRP (pack of 4)
		nominal	range	nominal	range				
ND-DYIRS-4	1 Cantilever per chip	34	25-40	310	200-400	120	33	2.5	\$249
ND-DYIRL-4	1 Cantilever per chip	28	20-35	240	150-350	130	33	2.5	\$249



ND-CTI Series: Contact Mode

Contact mode probes have the same tip and cantilever specifications as conductive probes, ND-CTC Series (above).

SKU	Chip Image	Cantilever	Force Constant (N/m)		Frequency (kHz)		Length (μm)	Width (μm)	Thickness (μm)	MSRP (pack of 4)
			nominal	range	nominal	range				
ND-CTIR1-4		Short Medium Long	0.35	0.25-0.45	35	20-50	225	30	1	\$249
			0.17	0.10-0.25	17	10-25	325	40	1	
			0.04	0.02-0.05	12	6-20	425	20	1	
ND-CTIR2-4		Short Medium Long	0.23	0.15-0.30	40	20-60	225	20	1	\$249
			0.08	0.05-0.10	12	6-20	425	40	1	
			0.05	0.03-0.07	8	4-16	500	40	1	
ND-CTIT1-4		Short Long	1.28	1.00-1.50	48	25-70	200	25	1	\$249
			0.46	0.30-0.60	24	12-40	300	41	1	
ND-CTIT2-4		Short Long	0.71	0.50-0.95	50	25-75	200	17	1	\$249
			0.04	0.02-0.05	23	12-45	300	23	1	