

NaDiaProbes — All-Diamond AFM Probes Specifications



ND-DTI Series: Dynamic Mode Probes

Tip		Cantilever	
Shape:	(311) Pyramid	Tip Setback:	9 μ m
Height:	5.66 μ m	Coating:	60 nm reflective aluminum coating
Radius:	10-30 nm (nominal-guaranteed < 50 nm)	Curvature:	Nominally less than 3 degrees
Material:	UNCD (polycrystalline diamond)	Chip:	Standard size Pyrex (3.6 x 1.5 x 0.5 mm)

SKU	Force Constant (N/m)		Frequency (kHz)		Length (μ m)	Width (μ m)	Thickness (μ m)	Cantilever	MSRP
	nominal	range	nominal	range					
ND-DTI series: Dynamic Mode Probes									
ND-DTIRS-4	35	30-50	310	200-400	120	33	3	1 per chip	\$249
ND-DTIRL-4	30	25-45	240	150-350	130	33	3	1 per chip	\$249



ND-CTI Series: Contact Mode Probes

Tip		Cantilever	
Shape:	(111) Pyramid	Tip Setback:	9 μ m
Height:	5.66 μ m	Coating:	60 nm reflective aluminum coating
Radius:	15-30 nm (nominal - guaranteed < 50nm)	Curvature:	Nominally less than 3 degrees
Material:	UNCD (polycrystalline diamond)	Chip:	Standard size Pyrex (3.6 x 1.5 x 0.5 mm)

SKU	Chip Image	Cantilever	Force Constant (N/m)		Frequency (kHz)		Length (μ m)	Width (μ m)	Thickness (μ m)	MSRP (pack of 4)
			nominal	range	nominal	range				
ND-CTIR1-4		Short	0.35	0.25-0.45	35	20-50	225	30	1	\$249
		Medium	0.17	0.10-0.25	17	10-25	325	40	1	
		Long	0.04	0.02-0.05	12	6-20	425	20	1	
ND-CTIR2-4		Short	0.23	0.15-0.30	40	20-60	225	20	1	\$249
		Medium	0.08	0.05-0.10	12	6-20	425	40	1	
		Long	0.05	0.03-0.07	8	4-16	500	40	1	
ND-CTIT1-4		Short	1.28	1.00-1.50	48	25-70	200	25	1	\$249
		Long	0.46	0.30-0.60	24	12-40	300	41	1	
ND-CTIT2-4		Short	0.74	0.50-0.95	50	25-75	200	17	1	\$249
		Long	0.04	0.02-0.05	23	12-45	300	23	1	



ND-CTC Series: Conductive Probes Available

All of the above probes are available using electrically conductive diamond and sold on a wafer scale (approximately 300 probes per wafer). Call ADT for more information at (+01) 815.293.0900 or email sales@thindiamond.com.