

Mode	Non-Contact / TappingMode™ Conductive Diamond Coated Tip			
Model	DT-NCHR	CDT-NCHR	DT-NCLR	CDT-NCLR
Application	hard contact between Tip and sample	hard contact SSRM,STM,SCM	hard contact between Tip and sample	hard contact SSRM,STM,SCM
General	Monolithic Silicon Probe			

Technical Data	Value	Range	Value	Range	Value	Range	Value	Range
Thickness	4μm	3.5 ~ 4.5	4μm	3.5 ~ 4.5	7μm	6.5 ~ 7.5	7μm	6.5 ~ 7.5
Mean Width	30μm	25 ~ 35	30μm	25 ~ 35	38μm	33 ~ 43	38μm	33 ~ 43
Length	125μm	120 ~ 130	125μm	120 ~ 130	225μm	220 ~ 230	225μm	220 ~ 230
Force Constant	42 N/m	21 ~ 77	42 N/m	21 ~ 77	48 N/m	31 ~ 71	48 N/m	31 ~ 71
Resonance Frequency	320 kHz	250 ~ 390	320 kHz	250 ~ 390	190 kHz	160 ~ 210	190 kHz	160 ~ 210
Tip Height	10 ~ 15μm		10 ~ 15μm		10 ~ 15μm		10 ~ 15μm	
Tip Radius	100 nm ~ 200 nm		100 nm ~ 200 nm		100 nm ~ 200 nm		100 nm ~ 200 nm	
Reflex Coating	30 nm thick Aluminium		30 nm thick Aluminium		30 nm thick Aluminium		30 nm thick Aluminium	
Diamond Coating	10nm thick polycrystalline		10nm thick polycrystalline		10nm thick polycrystalline		10nm thick polycrystalline	

Order Code	Order Code	Quantity	Order Code	Quantity	Order Code	Quantity	Order Code	Quantity
Non-Contact/Tapping	DT-NCHR-10	10	CDT-NCHR-10	10	DT-NCLR-10	10	CDT-NCLR-10	10
	DT-NCHR-20	20	CDT-NCHR-20	20	DT-NCLR-20	20	CDT-NCLR-20	20
	DT-NCHR-50	50	CDT-NCHR-50	50	DT-NCLR-50	50	CDT-NCLR-50	50
	DT-NCHR-W	380	CDT-NCHR-W	380	DT-NCLR-W	380	CDT-NCLR-W	380