

Mode	Force Modulation Mode			
Model	FM	FMR	LFM	LFMR
Application	FM	FM	LFM/FFM	LFM/FFM
General	Monolithic Silicon Probe			

Technical Data	Value	Range	Value	Range	Value	Range	Value	Range
Thickness	3 μ m	2.5 ~ 3.5	3 μ m	2.5 ~ 3.5	1 μ m	0.5 ~ 1.5	1 μ m	0.5 ~ 1.5
Mean Width	28 μ m	22.5 ~ 32.5	28 μ m	22.5 ~ 32.5	48 μ m	42.5 ~ 52.5	48 μ m	42.5 ~ 52.5
Length	225 μ m	220 ~ 230	225 μ m	220 ~ 230	225 μ m	220 ~ 230	225 μ m	220 ~ 230
Force Constant	2.8 N/m	1.2 ~ 5.5	2.8 N/m	1.2 ~ 5.5	0.2 N/m	0.02 ~ 0.7	0.2 N/m	0.02 ~ 0.7
Resonance Frequency	75 kHz	60 ~ 90	75 kHz	60 ~ 90	23 kHz	10 ~ 39	23 kHz	10 ~ 39
Tip Height	10 ~ 15 μ m		10 ~ 15 μ m		10 ~ 15 μ m		10 ~ 15 μ m	
Tip Radius	<10 nm		<10 nm		<10 nm		<10 nm	
Reflex Coating	No		30nm thick Aluminium		No		30nm thick Aluminium	

Order Code	Order Code	Quantity	Order Code	Quantity	Order Code	Quantity	Order Code	Quantity
Non-Contact / Tapping	FM-10	10	FMR-10	10	LFM-10	10	LFMR-10	10
	FM-20	20	FMR-20	20	LFM-20	20	LFMR-20	20
	FM-50	50	FMR-50	50	LFM-50	50	LFMR-50	50
	FM-W	380	FMR-W	380	LFM-W	380	LFMR-W	380

Mode	Force Modulation					
Model	MFMR		DT-FMR		CDT-FMR	
Application	MFM		Non-Contact /TappingMode™		SSRM , STM , SCM	
General	Monolithic Silicon Probe					
Technical Data						
	Value	Range	Value	Range	Value	Range
Thickness	3μm	2.5 ~ 3.5	3μm	2.5 ~ 3.5	3μm	2.5 ~ 3.5
Mean Width	28μm	22.5 ~ 32.5	28μm	22.5 ~ 32.5	28μm	22.5 ~ 32.5
Length	225μm	220 ~ 230	225μm	220 ~ 230	225μm	220 ~ 230
Force Constant	2.8 N/m	1.2 ~ 5.5	2.8 N/m	1.2 ~ 5.5	2.8 N/m	1.2 ~ 5.5
Resonance Frequency	75 kHz	60 ~ 90	75 kHz	60 ~ 90	75 kHz	60 ~ 90
Tip Height	10 ~ 15μm		10 ~ 15μm		10 ~ 15μm	
Lateral Resolution	<100 nm					
Tip Radius	<50 nm		100nm ~ 200nm		100nm ~ 200nm	
Magnetic Coating	40 nm thick cobalt alloy					
Diamond Coating			100nm thick polycrystalline		100nm thick polycrystalline	
Reflex Coating	30 nm thick Aluminium		30 nm thick Aluminium		30 nm thick Aluminium	
Order Code						
	Order Code	Quantity	Order Code	Quantity	Order Code	Quantity
Non-Contact / Tapping	MFMR - 10	10	DT-FMR - 10	10	CDT-FMR - 10	10
	MFMR - 20	20	DT-FMR - 20	20	CDT-FMR - 20	20
	MFMR - 50	50	DT-FMR - 50	50	CDT-FMR - 20	50
	MFMR - W	380	DT-FMR - W	380	CDT-FMR - W	380