

# CNT AFM Probes from Carbon Design Innovations

## Carbon Core High-Aspect Ratio Carbon Nanotube AFM Probes

CCHAR CNT Tip			
Parameter	Value		
	Nominal	Minimum	Maximum
Effective length*	1 $\mu$	.8 $\mu$	1.2 $\mu$
ROC	10nm	5nm	15nm

Model # CCHAR-70 Cantilever			
Material	Si		
Parameter	Value		
	Nominal	Minimum	Maximum
Resonant Frequency	65KHz	60 KHz	70 KHz
Spring Constant	3	1	5
Width	45	40	50
Thickness	2.5	2	3

Model # CCHAR-12 Cantilever			
Material	Si		
Parameter	Value		
	Nominal	Minimum	Maximum
Resonant Frequency	12 KHz	11 KHz	18 KHz
Spring Constant	0.2	0.1	0.6
Width	40	35	45
Thickness	2.5	2	3

### Company Information:

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Specifications are subject to  
change without notice.

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## Carbon Core High-Resolution Carbon Nanotube AFM Probes

CCHR CNT Tip			
Parameter	Value		
	Nominal	Minimum	Maximum
Effective length*	100nm	20nm	200nm
ROC	15nm	10nm	20nm

Model # CCHR-70 Cantilever			
Material	Si		
Parameter	Value		
	Nominal	Minimum	Maximum
Resonant Frequency	65KHz	60 KHz	70 KHz
Spring Constant	3	1	5
Width	45	40	50
Thickness	2.5	2	3

Model # CCHR-12 Cantilever			
Material	Si		
Parameter	Value		
	Nominal	Minimum	Maximum
Resonant Frequency	12 KHz	11 KHz	18 KHz
Spring Constant	0.2	0.1	0.6
Width	40	35	45
Thickness	2.5	2	3