

Microsense LLC.

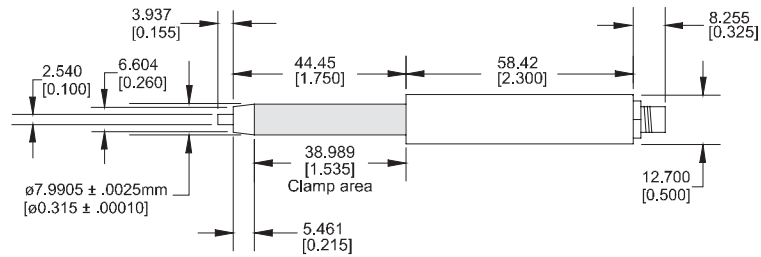
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Main Tel (978)843-7670  
Fax (978)856-3375



## Axial Probes

### Model - 5504

0.5 mm diameter sensor



RMS distance noise in nanometers [microinches]\*

Total distance range: 50  $\mu\text{m}$  [2.0 mils]

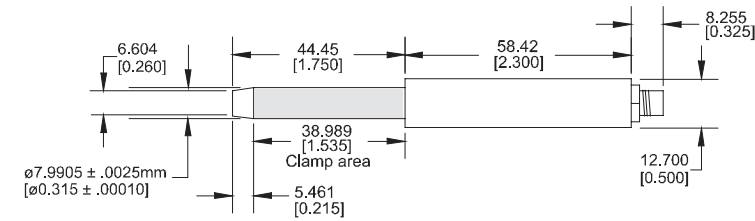
Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	0.5 [0.02]	0.5 [0.02]	0.7 [0.03]	1.9 [0.07]

Total distance range: 100  $\mu\text{m}$  [4.0 mils]

Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	1.1 [0.05]	1.5 [0.06]	2.2 [0.09]	6.7 [0.27]

### Model - 5501

1 mm diameter sensor



RMS distance noise in nanometers [microinches]\*

Total distance range: 100  $\mu\text{m}$  [4.0 mils]

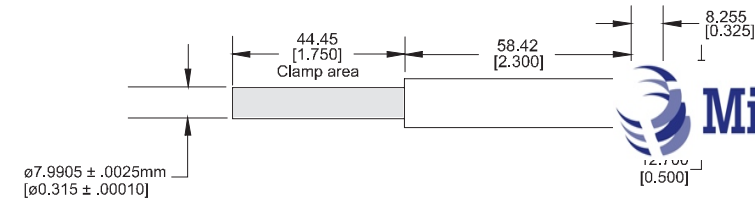
Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	1.1 [0.05]	1.1 [0.05]	1.3 [0.06]	2.7 [0.12]

Total distance range: 250  $\mu\text{m}$  [10.0 mils]

Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	10.2 [0.40]	10.3 [0.41]	10.8 [0.43]	17.9 [0.70]

### Model - 5502

2 mm diameter sensor



RMS distance noise in nanometers [microinches]\*

Total distance range: 250  $\mu\text{m}$  [10.0 mils]

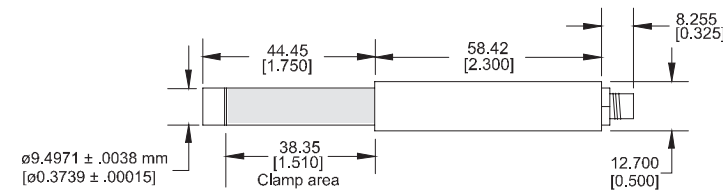
Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	1.7 [0.07]	2.1 [0.09]	2.7 [0.12]	5.8 [0.23]

Total distance range: 500  $\mu\text{m}$  [20.0 mils]

Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	4.6 [0.18]	5.7 [0.23]	7.6 [0.30]	22.3 [0.88]

### Model - 5503

5 mm diameter sensor



RMS distance noise in nanometers [microinches]\*


Total distance range: 500  $\mu\text{m}$  [20.0 mils]

Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	2.9 [0.12]	2.9 [0.12]	3.4 [0.14]	5.3 [0.21]

Total distance range: 1.0 mm [40.0 mils]

Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	5.7 [0.23]	6.5 [0.26]	9.0 [0.36]	20.1 [0.79]

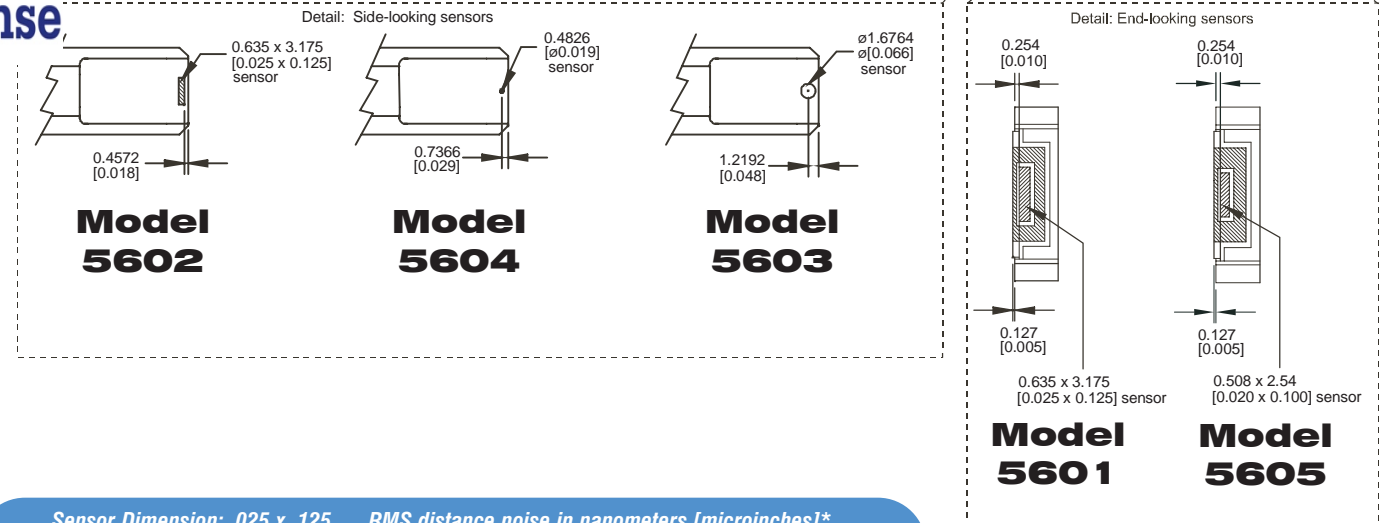
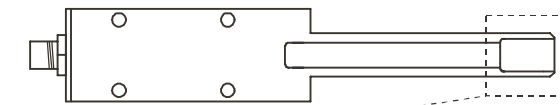
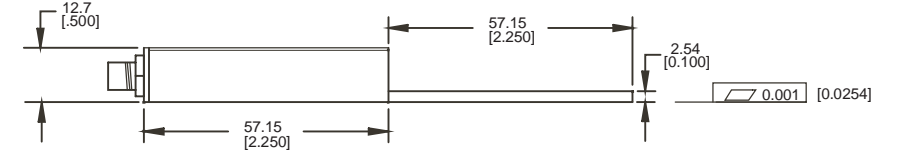
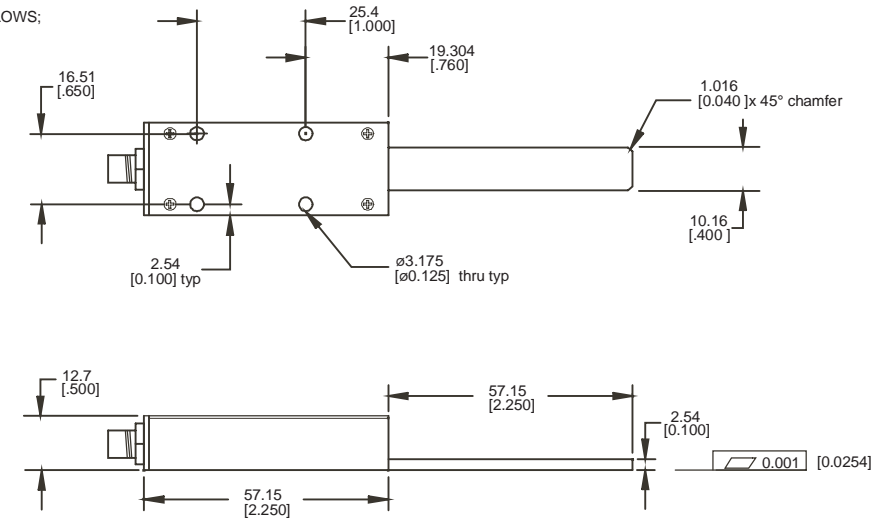
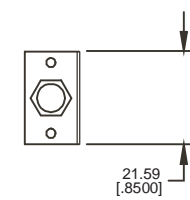


Shaded area  = Recommended clamping area

\* at maximum probe-to-target spacing

## Blade Probes

NOTES:  
DIMENSIONS SHOWN AS FOLLOWS;  
MILLIMETERS [INCHES]



Sensor Dimension: .025 x .125 RMS distance noise in nanometers [microinches]\*

Total distance range: 100  $\mu\text{m}$  [4.0 mils]

Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	0.7 [0.03]	0.7 [0.03]	0.8 [0.03]	1.6 [0.07]

Total distance range: 250  $\mu\text{m}$  [10.0 mils]

Bandwidth:	1 kHz	5 kHz	20 kHz	100 kHz
	1.5 [0.06]	2.0 [0.08]	3.6 [0.14]	10.7 [0.42]

