

# ANPx321/HL/RES/LT - linear x-nanopositioner

1008342

## Technical Specifications

Size and Dimensions	
footprint; height	44 mm x 41.6 mm; 11.5 mm
maximum installation space	44 mm x 49.1 mm; 11.5 mm
weight	80 g
Materials	
positioner body	titanium
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
Coarse Positioning Mode	
travel range (step mode)	15 mm
maximum drive velocity @ 300 K	~ 3 mm/s
Fine Positioning Mode	
fine linear positioning range @ 300 K	7.5 $\mu\text{m}$
fine linear positioning range @ 4 K	1.2 $\mu\text{m}$
fine positioning resolution	sub-nm
Position Encoder	
readout mechanism	resistive sensor
encoded travel range	full travel
sensor resolution	~ 200 nm
repeatability	1..2 $\mu\text{m}$ (unidirectional)
Load (@ ambient conditions)	
maximum load	2 kg
maximum dynamic force along the axis	2 N

