

# ANPx311/RES/UHV - linear x-nanopositioner

1008592

## Technical Specifications

Size and Dimensions		
footprint; height		34 mm x 30 mm; 10 mm
maximum installation space		34 mm x 36 mm; 10 mm
weight		32 g
Materials		
positioner body		titanium
actuator		PZT ceramics
connecting wires		insulated twisted pair, copper
Coarse Positioning Mode		
travel range (step mode)		5.8 mm
maximum drive velocity @ 300 K		~ 3 mm/s
Fine Positioning Mode		
fine linear positioning range @ 300 K		5 $\mu$ m
fine positioning resolution		sub-nm
input DC voltage range @ 300 K		0 - 100 V
Position Encoder		
readout mechanism		resistive sensor
sensor resolution		~ 200 nm
repeatability		1..2 $\mu$ m (unidirectional)
Load (@ ambient conditions)		
maximum load		2 kg
maximum dynamic force along the axis		2 N
General Specifications		
environment		/UHV
min. first natural frequency		2600 Hz

