

ANPx51/RES/LT/UHV - linear x-nanopositioner

1003266

Technical Specifications

Size and Dimensions	
footprint; height	15 mm x 18 mm; 9.2 mm
maximum installation space	18 mm x 18 mm; 9.2 mm
weight	7.2 g
height	9.2 mm
cable	30 cm cable with connector
Materials	
positioner body	titanium
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
Coarse Positioning Mode	
travel range (step mode)	3 mm
maximum drive velocity @ 300 K	~ 1 mm/s
input voltage range	0 - 60 V
Fine Positioning Mode	
fine linear positioning range @ 300 K	3.5 µm
fine linear positioning range @ 4 K	0.5 µm
fine positioning resolution	sub-nm
input DC voltage range @ 300 K	0 - 100 V
input DC voltage range @ 4 K	0 - 150 V
Position Encoder	
readout mechanism	resistive sensor
encoded travel range	full travel
sensor resolution	~ 200 nm
sensor power (when measuring)	0.01 - 1 mW
repeatability	1..2 µm (unidirectional)
Load (@ ambient conditions)	
maximum load	25 g
maximum dynamic force along the axis	1 N
General Specifications	
environment	/LT/UHV

