

ANPx311/RES/RT - linear x-nanopositioner

1008596

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)	6 mm
maximum drive velocity @ 300 K	~ 3 mm/s
input voltage range	0 - 60 V
Fine Positioning Mode	
fine linear positioning range @ 300 K	5 μ m
fine positioning resolution	sub-nm
typical actuator capacitance fine (z) @ 300 K	1.55 μ F
input DC voltage range @ 300 K	0 - 100 V
Position Encoder	
readout mechanism	resistive sensor
sensor resolution	~ 200 nm
sensor power (when measuring)	0.1 - 1 mW
repeatability	1..2 μ m (unidirectional)
Load (@ ambient conditions)	
maximum load	2 kg
maximum dynamic force along the axis	2 N
General Specifications	
environment	/RT
min. first natural frequency	2600 Hz

