

ANPx341/RES/LT - linear x-nanopositioner

1007276

Technical Specifications

Size and Dimensions	
footprint; height	44 mm x 45 mm; 11.5 mm
maximum installation space	44 mm x 61 mm x 11.5 mm
weight	82.2 g
height	11.5 mm
Materials	
positioner body	titanium
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
Coarse Positioning Mode	
travel range (step mode)	20 mm
maximum drive velocity @ 300 K	~ 3 mm/s
input voltage range	0 - 60 V
typical actuator capacitance @ 300 K [μ F]	1.6
typical minimum step size @ 300 K	100 nm
Fine Positioning Mode	
fine linear positioning range @ 300 K	5 μ m
fine linear positioning range @ 4 K	0.8 μ m
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 μ m (unidirectional)
Load (@ ambient conditions)	
maximum load	2 kg
maximum dynamic force along the axis	2 N
General Specifications	
environment	/LT

