ANPx312/RES

Technical Specifications

Technology	
travel mechanism	inertial piezo drive
positioner type	linear
Size and Dimensions	
footprint; height	30 x 34 ; 12 mm
max installation space	36 x 34 ; 12 mm
weight	44 g
Materials	
positioner body	Titanium
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
bearings	ceramics
Load (@ ambient conditions)	
maximum load	20 N
maximum dynamic force along the axis	2 N
Coarse Positioning Mode	
input voltage range	0 - 60 V
travel range (step mode)	6 mm
maximum drive velocity @ 300 K	~ 3 mm/s
typical minimum step size @ 300 K	0.1 nm
typical minimum step size @ 4 K	20 nm

Fine Positioning Mode	
fine positioning resolution	sub-nm
input DC voltage range @ 300 K	0 - 100 V
input DC voltage range @ 4 K	0 - 150 V
Accuracy of Movement	
repeatability of step sizes	typically 5 % over full range
typ. forward / backward step asymmetry	typically 5 %
Position Encoder	
sensor resolution	~ 200 nm
repeatability	1..2 µm (unidirectional)
Working Conditions	
magnetic field range	0 - 31 T
Connectors and Feedthroughs	
cable	30 cm cable with connector
electrical feedthrough solution	VFT/LT
High Load Option (/HL)	
/HL/(U)HV - maximum dynamic force	1 N
/HL/LT - maximum dynamic force	0.75 N
Options	
environmental options	/LT, /LT/HV, /LT/UHV
Versions	
/LT Version	1013515
/LT/HV Version	1013521
/LT/UHV Version	1013524

Technical Drawings

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