ANSz100hs

Technical Specifications

Technology	
travel mechanism	dedicated for tuning fork applications"
positioner type	Scanner
Size and Dimensions	
footprint; height	24x24; 10mm
max installation space	24x24; 10mm
weight	g
Materials	
positioner body	titanium (upgrade option: copper beryllium)
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
Options	
environmental options	/RT
Load (@ ambient conditions)	
maximum load	1 N
Fine Positioning Mode	
fine positioning resolution	sub-nm
fine linear positioning range @ 300 K	4.3 µm
fine linear positioning range @ 4 K	2 µm
input DC voltage range @ 300 K	0 - 60 V
input DC voltage range @ 4 K	0 - 150 V
typical actuator capacitance fine @ 300 K	2.5 µF
typical actuator capacitance fine @ 4 K	0.35 µF

Accuracy of Movement	
repeatability of step sizes	no coarse positioning capability
scan repeatability	no coarse positioning capability %
typ. forward / backward step asymmetry	no coarse positioning capability
creep	no coarse positioning capability
linearity	typically 0.5 - 0.8 % per decade of time
Working Conditions	
magnetic field range	0 - 31 T
minimum pressure (/RT)	ambient
temperature range (/RT)	273K .. 373K
Connectors and Feedthroughs	
cable	30 cm cable with connector
connector type	2-pole pin plug, ø 0.5 mm, d = 2 mm
electrical feedthrough solution	VFT/LT
Versions	
/RT version	1002579

Technical Drawings