

ANGt50

Technical Specifications

Technology	
travel mechanism	inertial piezo drive
positioner type	goniometer
Size and Dimensions	
footprint; height	15x15; 10mm
max installation space	15x19.5; 10.5mm
distance center of rotation to top	30 mm
weight	7 g
Materials	
positioner body	titanium (upgrade option: copper beryllium)
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
Options	
environmental options	/HV, /LT, /LT/HV, /LT/UHV, /RT, /UHV
Compatibility with Electronics	
ANC300 piezo positioning controller	ANM150, ANM300
Load (@ ambient conditions)	
maximum load	0.25 N
maximum dynamic force along the axis	1 N
Coarse Positioning Mode	
input voltage range	0 - 60 V
travel range (step mode)	7.2 °
maximum drive velocity @ 300 K	approx. 1 °/s
Fine Positioning Mode	
fine positioning resolution	no fine positioning capability

Accuracy of Movement	
repeatability of step sizes	typically 5 % over full range
typ. forward / backward step asymmetry	typically 5 %
Working Conditions	
mounting orientation	axis horizontal
magnetic field range	0 - 31 T
minimum pressure (/RT)	ambient
minimum pressure (/HV)	1E-8 mbar
minimum pressure (/UHV)	5E-11 mbar
temperature range (/RT)	273K .. 373K
temperature range (/LT)	10mK .. 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	1002598
/HV version	1002596
/UHV version	1002597
/LT version	1002402
/LT/HV version	1002599
/LT/UHV version	1002600

Technical Drawings

