

ANGt101

Technical Specifications

Technology	
travel mechanism	inertial piezo drive
positioner type	goniometer
Size and Dimensions	
footprint; height	24x24; 11mm
max installation space	28.6x24; 11.8mm
distance center of rotation to top	40 mm
weight	18 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 torque on the axis	10 Ncm
maximum load	1 N
maximum dynamic force along the axis	2 N
Coarse Positioning Mode	
input voltage range	0 - 60 V
typical actuator capacitance @ 300 K	1.11 µF
typical actuator capacitance @ 4 K	0.15 µF
travel range (step mode)	6.6 °
typical minimum step size @ 300 K	0.1 m°
typical minimum step size @ 4 K	0.02 m°
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)	1E-4 mbar
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
electrical feedthrough solution	VFT/LT
Versions	
/RT version	1002732
/HV version	1002733
/UHV version	1002734
/LT version	1002735
/LT/HV version	1002736
/LT/UHV version	1002737

Technical Drawings

