

ANGp101

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	51 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)	5.4 °
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
forward / backward step asymmetry	typically 5 %

Mounting	
no. of through holes at the top	2
diameter of through holes at the top	2.2 mm
type of screw at the top	M2
no. of threads at the bottom	2
type of screw at the bottom	M2.5 x 6 mm
no. of threads for load on top	6
type of screw for load on top	M2 x 3 mm
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	1002738
/HV version	1002739
/UHV version	1002740
/LT version	1002741
/LT/HV version	1002742
/LT/UHV version	1002743

Technical Drawings

