



Technical Specifications

travel mechanism	
cravet mechanism	inertial piezo drive
positioner type	linear
Size and Dimensions	
footprint; height	?11; 12mm
max installation space	?11; 14.5mm
weight	3.8 g
Materials	
positioner body	beryllium copper and titanium
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	1 Ncm
maximum load	0.1 N
maximum dynamic force along the axis	0.2 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)	2.5 mm
maximum drive velocity @ 300 K	approx. 1 mm/s
Fine Positioning Mode	
fine positioning range @ 300 K	5 μm
fine positioning range @ 4 K	0.8 μm
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 - 10 % depending on load
Working Conditions	
mounting orientation	axis vertical
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)	10mK373K
Connectors and Feedthroughs	
cable	30 cm cable with connector
electrical feedthrough solution	VFT/LT
Versions	
/RT version	1000028
/HV version	1000046
/UHV version	1000013
/LT version	1000006
/LT/HV version	1000406
/LT/UHV version	1000019

Technical Drawings









