ANPx101

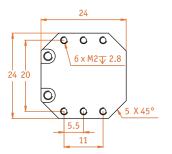


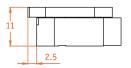
Technical Specifications

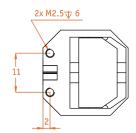
Technology	
travel mechanism	inertial piezo drive
positioner type	linear
Size and Dimensions	
footprint; height	24x24; 11mm
max installation space	24x29; 11mm
weight	20 g
Materials	
positioner body	titanium (upgrade option: copper beryllium)
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
Options	
environmental options	/HV, /LT, /LT/HV, /LT/UHV, /RT, /UHV
Load (@ ambient conditions)	
maximum load	1 N
maximum dynamic force along the axis	2 N
Coarse Positioning Mode	
input voltage range	0 - 60 V
travel range (step mode)	5 mm
maximum drive velocity @ 300 K	approx. 3 mm/s
typical minimum step size @ 300 K	50 nm
typical minimum step size @ 4 K	10 nm

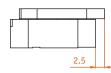
Fine Positioning Mode	
fine positioning resolution	sub-nm
fine linear positioning range @ 300 K	3.5 µm
fine linear positioning range @ 4 K	0.5 µm
input DC voltage range @ 300 K	0 - 100 V
input DC voltage range @ 4 K	0 - 150 V
Accuracy of Movement	
repeatability of step sizes	typically 5 % over full range
typ. forward / backward step asymmetry	typically 5 %
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)	273K373K
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	1001317
/HV version	1001313
/UHV version	1001314
/LT version	1001285
/LT/HV version	1001316
/LT/UHV version	1001315

Technical Drawings











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