

ANGt50

compact, open loop, goniometer for Θ -positioning

Technical Specifications

Technology		Compatibility with Electronics	
travel mechanism	inertial piezo drive	ANC300 piezo positioning controller	ANM150, ANM300
Size and Dimensions		Working Conditions	
footprint; height	15 x 15; 10 mm	mounting orientation	axis horizontal
maximum size	15 x 19.5; 10.5 mm	magnetic field range	0 .. 31 T
distance center of rotation to bottom	40 mm (above center)	temperature range (/RT, /HV, /UHV)	0 .. 100 °C
weight	7 g	temperature range (/LT, /LT/HV, /LT/UHV)	10 mK .. 373 K
Coarse Positioning Mode		max. bake out temperature (/UHV, /LT/UHV)	150 °C
	@ 300 K	@ 4 K	
input voltage range	0 .. 60 V	0 .. 60 V	minimum pressure (/RT, /LT)
typical actuator capacitance	525 nF	75 nF	1E-4 mbar
travel range (step mode)	7.2°	7.2°	minimum pressure (/HV, /LT/HV)
typical minimum step size	0.1 m°	20 μ°	1E-8 mbar
maximum drive velocity	≈ 1°/s		minimum pressure (/UHV, /LT/UHV)
			5E-11 mbar
Fine Positioning Mode		Accuracy of Movement	
fine positioning range	no fine positioning capability	repeatability of step sizes	typically 5 % over full range
		forward / backward step asymmetry	typically 5 %
Materials (non-magnetic)		Connectors and Feedthroughs	
positioner body	titanium (upgrade option: beryllium copper)	/RT, /LT Versions	all /HV, /UHV Versions
actuator	PZT ceramics	connector type	2-pole pin plug, 2-pole pin plug (PEEK),
connecting wires	insulated twisted pair, copper		ø 0.5 mm, d = 2 mm, ø 0.5 mm, d = 2 mm,
			30 cm cable with connector 30 cm cable with connector
Load (@ ambient conditions)		electrical feedthrough solution	VFT/LT VFT/HV, VFT/UHV
	mounting orientation: axis horizontal		
maximum load	0.25 N (25 g)		
maximum dynamic force along the axis	1 N		
Mounting			
from the top	2 through holes dia 1.7 mm, cntrbr. f. M1.6		
from the bottom	2 threads M2 x 3 mm		
load on top	3 threads M1.6 x 2.5 mm		
Article Numbers			
/RT Version	1002598		
/HV Version	1002596		
/UHV Version	1002597		
/LT Version	1002402		
/LT/HV Version	1002599		
/LT/UHV Version	1002600		

Technical Drawings

