

ANPx321/NUM

closed loop, bearing based, linear, horizontal stepper positioner with optoelectronic encoder

Гесhnology		Compatibility with Electronics		
travel mechanism	inertial piezo drive	ANC350 piezo positioning controller	ANC350/NUM	
Size and Dimensions		Working Conditions		
footprint; height	41.6 x 44; 11.5 mm	mounting orientation	axis horizont	al
maximum size	49.1 x 44; 11.5 mm	magnetic field range	07T	
weight	81 q	temperature range (/RT, /HV, /UHV)	0100°C	
weight	0.19	max. bake out temperature (/UHV)	150 °C	
Coarse Positioning Mode	@ 300 K	minimum pressure (/RT)	1E-4 mbar	
input voltage range	0 60 V	minimum pressure (/HV)	1E-8 mbar	
typical actuator capacitance	1.55 µF	minimum pressure (/UHV)	5E-11 mbar	
travel range (step mode)	15 mm	minimum pressure (/ OTTV)	JE II IIIDAI	
typical minimum step size	100 nm	Position Encoder		
maximum drive velocity	≈ 3 mm/s	readout mechanism	optoelectroni	cencor
maximum drive velocity	~ 5 11111/3	sensor power (when measuring)	300 mW	ic 3e11301
Fine Positioning Mode	@ 300 K	encoded travel range	full travel	
input voltage range	0 100 V	wavelength of illumination	870 nm	
fine positiong range	0 7.5 µm	sensor resolution	10 nm	
fine positioning range fine positioning resolution	sub-nm	repeatability	50 nm	
rine positioning resolution	SUD-IIIII	, ,	< 0.01 %	
Materials		linearity (over full travel)		
	44	absolute accuracy < 0.01 % of travel range		
positioner body	titanium PZT ceramics	Compostors and Foodthroughs /DT Vo	ersions	all /HV, /UHV Versions
actuator 				
connecting wires	insulated twisted pair, copper	31	le connector	15-pin D-Sub connector
bearings	ceramics	electrical feedthrough solution		VFT/HV, VFT/UHV
Load (@ ambient conditions)	mounting orientation: axis horizontal	High Load Option (/HL)	mounting orientation: axis vertical	
maximum load	20 N (2 kg)	/HL/RT - ambient conditions	3 N	
maximum dynamic force along the axis	2 N	/HL/UHV - UHV conditions	2 N	
Mounting		Article Numbers /HL Option		
from the top	4 through holes dia 2.2 mm, cntrbr. f. M2	/HL/RT Version	1008372	
from the bottom	4 threads M2.5 x 2 mm	/HL/HV Version	1008373	
load on top	10 threads M 2 x 3 mm	/HL/UHV Version	1008374	
Article Numbers				
/RT Version	1005587			
/HV Version	1005588			
/UHV Version	1005589			



