

## ANPx51/NUM+

compact, closed loop, linear, horizontal stepper positioner with optoelectronic encoder

ravel mechanism  size and Dimensions  ootprint; height naximum size	inertial piezo drive	ANC350 piezo positioning controller	ANC350/NUM	
ootprint; height				
, , ,		Working Conditions		
, , ,	15 x 19; 9.2 mm	mounting orientation	axis horizonta	l
naximum size	18 x 19; 9.2 mm	magnetic field range	07T	
veight	8.5 q	temperature range (/RT, /HV, /UHV)	0100°C	
g	3.5 g	max. bake out temperature (/UHV)	150 °C	
Coarse Positioning Mode	@ 300 K	minimum pressure (/RT)	1E-4 mbar	
nput voltage range	0 60 V	minimum pressure (/HV)	1E-8 mbar	
ypical actuator capacitance	1.11µF	minimum pressure (/UHV)	5E-11 mbar	
ravel range (step mode)	3 mm	illillillillilli pressure (/ 011v)	JL-11 IIIDai	
ypical minimum step size	5 nm	Position Encoder		
		readout mechanism		
maximum drive velocity	≈ 1 mm/s		optoelectronic	Sensor
	0.000 #	sensor power (when measuring)	50 mW	
ine Positioning Mode	@ 300 K	encoded travel range	full travel	
nput voltage range	0 100 V	wavelength of illumination	870 nm	
ine positiong range	0 5 μm	sensor resolution	10 nm	
ine positioning resolution	sub-nm	repeatability	50 nm	
		linearity (over full travel)	< 0.01 %	
Materials (non-magnetic)		absolute accuracy	< 0.01 % of tra	vel range
ositioner body	titanium (upgrade option: copper beryllium)			
ctuator	PZT ceramics	Connectors and Feedthroughs /RT Ver	rsions	all /HV, /UHV Version
connecting wires	insulated twisted pair, copper		e connector	15-pin D-Sub connect
.oad (@ ambient conditions)	mounting orientation: axis horizontal	electrical feedthrough solution		VFT/HV, VFT/UHV
naximum load	0.25 N (25 q)			
naximum dynamic force along the axis	1 N			
naximum dynamic force along the axis	IN			
<b>Nounting</b>				
rom the top	2 through holes dia 1.7 mm, cntrbr. f. M1.6			
rom the bottom	2 threads M2 x 2.5 mm			
oad on top	4 threads M1.6 x 2.5 mm			
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Article Numbers				
'RT version	1005027			
HV version	1005028			
'UHV version	1005029			



