

## ANRv220/RES

closed loop, rotary stepper positioner with horizontal rotation axis and resistive encoder

Technology			Compatibility with Electronics			
travel mechanism	inertial piezo drive		ANC350 piezo positioning controller		ANC350/RES	
Size and Dimensions			Working Conditions			
footprint; height	27 x 12; 28.5 mm		mounting orientation		axis horizontal	
weight	38 q		magnetic field range		031 T	
through hole in the middle of the axis	Ø 2 mm		temperature range (/LT, /LT/HV, /LT/UHV)		10 mK 373 K	
through note in the induce of the axis	y E IIIII		max. bake out temperature (/UHV, /LT/UHV)		150 °C	
Coarse Positioning Mode	@ 300 K	@ 4 K	minimum pressure (/RT, /LT)		1E-4 mbar	
input voltage range	0 60 V	0 60 V	minimum pressure (/HV, /LT/HV)	1	1E-8 mbar	
typical actuator capacitance	2.1 μF	0.3 μF	minimum pressure (/UHV, /LT/UI		5E-11 mbar	
travel range (step mode)	360° endless, bo	•	minimum pressure (/ onv, / El/ onv)		JL-11 IIIbai	
typical minimum step size	1 m°	0.5 m°	Accuracy of Movement			
maximum drive velocity	≈ 30 °/s	0.5 III	wobble		± 100 μrad	
maximum unive velocity	~ 30 /3		WODDLE		± 100 μιαα	
Fine Positioning Mode	@ 300 K	@ 4 K	Position Encoder			
input voltage range	0100 V	0 150 V	readout mechanism		resistive senso	r
fine positiong range	070 m°	0 14 m°	sensor power (when measuring)		1 μW 1 mW	
fine positioning resolution	μ°	μ°	encoded travel range		315°	
			sensor resolution		≈ 6 m°	
Materials (non-magnetic)			repeatability		≈ 50 m°	
positioner body	beryllium copper and titanium		linearity (over full travel)		< 1%	
actuator	PZT ceramics		absolute accuracy	typically < 1.5 %		% of travel range
connecting wires	insulated twisted pair, copper		•			
•			Connectors and Feedthroughs	/RT, /LT Ver	sions	all /HV, /UHV Versions
Load (@ ambient conditions)	mounting orientation: axis horizontal		connector type	2-pole pin pl	lug,	2-pole pin plug (PEEK),
maximum load	1 N (100 g)			ø 0.5 mm, d = 2 mm,		ø 0.5 mm, d = 2 mm,
maximum dynamic torque around axis	1 Ncm		30 cm cabl		with connector	30 cm cable with connector
			encoder connector	additional 3	-pole plua	additional 3-pole plug (PEE
			electrical feedthrough solution	VFT/LT	, , 5	VFT/HV, VFT/UHV
Mounting			eteeti taa reeatiii oagii sotatioii	,		,,,
from the bottom	2 threads for M2 x 4 mm					
from the left	2 threads for M2 x 4 mm					
load at the front	6 threads for M2 x 2 mm					
Article Numbers						
/RT Version	1006363					
/HV Version	1006364					
/UHV Version	1006365					
/LT Version	1006366					
/LT/HV Version	1006366					
• •						
/LT/UHV Version	1006368					



