

## **ECR5050**

## nanoprecise open loop stepper rotator for endless rotation in both directions

Technology		Compatibility with Electronics			
travel mechanism	inertial piezo drive	ECC100 piezo positioning control	ler all versions		
Size and Dimensions		Working Conditions			
footprint; height	50 x 50; 13.5 mm	mounting orientation arbitrary			
maximum size	50 x 50; 13.5 mm	temperature range (/RT, /HV, /U	HV) 0100 °C		
weight (aluminum/stainless steel)	100/215 q	max. bake out temperature (/UH	,		
	, ,	minimum pressure (/RT)	1E-4 mbar	1E-4 mbar	
Coarse Positioning Mode		minimum pressure (/HV)	1E-8 mbar	1E-8 mbar	
input voltage range	0 60 V	minimum pressure (/UHV)	5E-11 mbar		
typical actuator capacitance	1.05 µF	, ,			
travel range (step mode)	360 ° endless	Accuracy of Movement			
typical minimum step size	0.2 m°	-		over full range	
maximum drive velocity (@ 45 V)	10 °/s	forward / backward step asymmetry			
maximum drive velocity (@ +5 v)	/-	wobble	try 10% 6 mrad		
Fine Positioning Mode			••		
input voltage range	0 100 V	Position Encoder			
fine positiong range	06 m°	encoder options	_		
fine positioning resolution	μ°	encoder options			
Time posicioning resocucion	r	Connectors and Feedthroughs	/RT Versions	all /HV, /UHV Versions	
Materials		connector type	14-pole connector	15-pin D-Sub connector	
positioner body (/RT)	aluminum	3,70	50 cm cable with connector	•	
positioner body (/HV, /UHV)	stainless steel	electrical feedthrough solution		VFT/HV, VFT/UHV	
actuator	PZT ceramics	eteetireat recatinough sotation		,,,	
connecting wires	insulated twisted pair, copper				
bearings	stainless steel				
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Load (@ ambient conditions)	mounting orientation: axis vertical				
maximum load	20 N (2 kg)				
maximum dynamic torque around axis	4 Ncm				
Mounting					
from the top	4 through holes dia 2.2 mm, cntrbr. f. M2				
from the bottom	4 threads for M2.5 x 2 mm				
load on top	8 threads M2 x 2.3 mm				
load at the front	L-bracket				
toda de ene mone	E Brucket				
Article Numbers					
/RT Version Aluminum	1008467				
/HV Version Stainless Steel	1008468				
/UHV Version Stainless Steel	1008469				



