

## ECR4040/NUM(+)

nanoprecise closed loop stepper rotator with integrated 1/2" aperture for endless rotation in both directions with optoelectronic sensor

echnology		Compatibility with Electronics	
ravel mechanism	inertial piezo drive	ECC100 piezo positioning controller	all versions
Size and Dimensions		Working Conditions	
footprint; height	40 x 40; 14.5 mm	mounting orientation	arbitrary
aperture	1/2"	working conditions	ambient
, weight	54 g	J	
Coarse Positioning Mode		Accuracy of Movement	
input voltage range	0 60 V	repeatability of step sizes	typically 5 % over full range
typical actuator capacitance	1.11µF	forward / backward step asymmetry	10%
travel range (step mode)	360 ° endless	wobble	1 mrad
typical minimum step size	0.2 m°		
maximum drive velocity (@ 45 V)	10 °/s	Position Encoder	
, ,	- /-	readout mechanism	optoelectronic sensor
Fine Positioning Mode		sensor power (when measuring)	300 mW
input voltage range	0 100 V	encoded travel range	360 °
fine positiong range	06 m°	wavelength of illumination	870 nm
fine positioning resolution	μ°	sensor resolution	0.04 m°
Time positioning resolution	۴	repeatability	4 m°
Materials		absolute accuracy	< 0.01% of travel range
positioner body	aluminum	absolute accuracy	vo.01% of claver range
actuator	PZT ceramics	Connectors and Feedthroughs	/RT Versions
connecting wires			14-pole connector
3	insulated twisted pair, copper stainless steel	connector type	50 cm cable with connector
bearings	stantess steet		50 cm cable with connector
Load (@ ambient conditions)	mounting orientation: axis vertical		
maximum load	20 N		
maximum dynamic torque around axis	2 Ncm		
maximum dynamic torque around axis	2 Non		
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 1.8 mm		
from the side	2 threads M2.5 x 4.5 mm		
aperture	SM05 x 6.5		
aperture	3H03 X 0.3		
Article Numbers	1000527		
/RT version	1009637		



