

# ECR4040

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

## Technical Specifications

<b>Technology</b>		<b>Compatibility with Electronics</b>	
travel mechanism	inertial piezo drive	ECC100 piezo positioning controller	all versions
<b>Size and Dimensions</b>		<b>Working Conditions</b>	
footprint; height	40 x 40; 14.5 mm	mounting orientation	arbitrary
aperture	1/2"	working conditions	ambient
weight	54 g		
<b>Coarse Positioning Mode</b>		<b>Accuracy of Movement</b>	
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		
<b>Fine Positioning Mode</b>		<b>Position Encoder</b>	
input voltage range	0 .. 100 V	encoder options	-
fine positioning range	0 .. 6 m°		
fine positioning resolution	µ°		
<b>Materials</b>		<b>Connectors and Feedthroughs</b>	
positioner body	aluminum	connector type	/RT Versions 14-pole connector 50 cm cable with connector
actuator	PZT ceramics		
connecting wires	insulated twisted pair, copper		
bearings	stainless steel		
<b>Load (@ ambient conditions)</b>		<b>mounting orientation: axis vertical</b>	
maximum load	20 N		
maximum dynamic torque around axis	2 Ncm		
<b>Mounting</b>			
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		
<b>Article Numbers</b>			
/RT version	1009634		

## Technical Drawings

