ECSz3030/NUM

Technical Specifications

Technology	
travel mechanism	inertial piezo drive
positioner type	linear
Size and Dimensions	
footprint; height	31x30; 31.5mm
max installation space	36.1x30; 36.5mm
weight (aluminium version)	90 g
Materials	
positioner body	Aluminum
actuator	PZT ceramics
connecting wires	copper, jacket: RT: Teflon/PTFE
bearings	stainless steel
Options	
environmental options	/RT
Load (@ ambient conditions)	
maximum load	8 N
maximum dynamic force along the axis	8 N
Coarse Positioning Mode	
travel range (step mode)	5 mm
maximum drive velocity @ 300 K	2 mm/s
typical minimum step size @ 300 K	30 nm
Fine Positioning Mode	
fine positioning resolution	sub-nm
fine linear positioning range @ 300 K	0.8 µm
input DC voltage range @ 300 K	0 - 60 V

Accuracy of Movement	
repeatability of step sizes	typically 5 % over full range
typ. forward / backward step asymmetry	10 %
Position Encoder	
readout mechanism	optoelectronic sensor
encoded travel range	entire travel
sensor power (when measuring)	300 mW
wavelength of illumination	870 nm
sensor resolution	1 nm
repeatability	50 nm (bidirectional)
absolute accuracy	< 0.01% of travel range
Working Conditions	
mounting orientation	arbitrary
minimum pressure (/RT)	ambient
temperature range (/RT)	273K .. 328K
Connectors and Feedthroughs	
cable	50 cm cable with connector
connector type	14-pole connector
Versions	
/RT version	1012903

Technical Drawings