

Make Your Motion and Control More Accurate!

X axis | P63.X7S/K Piezo Nanopositioning Stage

Introduction

P63.X7 is small-size piezo nanopositioning stage with direct drive mechanism inside. Its important characteristics are ultra-precision and very small size, which is very easy to integrate into any scanning

instrument. .

Characteristics >>

- Active axes X
- Stroke to 6.8µm
- Load to 0.8kg
- Fast response time
- Repeatability to nanometer

Applications >>

- Microimaging
- Nanopositioning
- Biotechnology
- Quality assurance testing
- Semiconductor technology
- Minicars cut
- AFM



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Technical Data >>

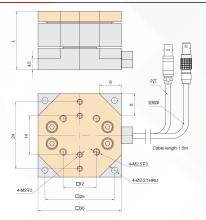
Type S-Closed loop K-Open loop	P63.X7S	P63.X7K	Units
Active axis	Х	Х	
Travel range(0~120V)	5.5	5.5	µm±10%
Travel range(0~150V)	6.8	6.8	µm±10%
Sensor	SGS	-	
Resolution	0.2	0.1	nm
Closed-loop linearity	0.4	-	%F.S.
Repeatability	0.2	-	%F.S.
Pitch/yaw/roll	<5	<5	µrad
Push/pull force capacity	10/2	10/2	Ν
Stiffness	1.5	1.5	N/µm±20%
Unloaded resonant frequency	2	2	kHz±20%
Unloaded Step time	1.5	0.3	ms±20%
Load capacity	0.8	0.8	kg
El. capacitance	0.8	0.8	μF±20%
Operating temperature ^[1]	-20~80	-20~80	°C
Material	Aluminum	Aluminum	
Size(L×W×H)	30×30×21	30×30×21	mm
Mass	70	70	g±5%
Cable length ^[2]	1.5	1.5	m±10mm
Sensor/voltage connector ^[2]	-	-	

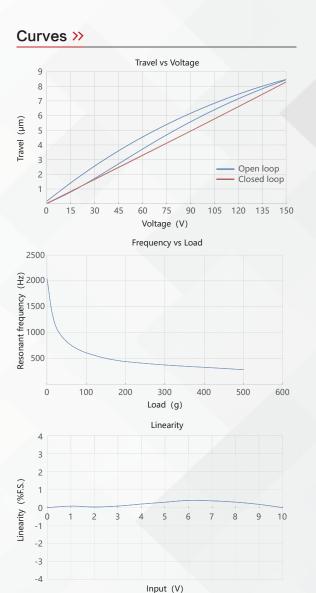
Note: Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

Custom ultralow temperature and ultrahigh vacuum versions are available.
Custom cable length and connector is available.

Note: The parallelism of the moving platform is about 20μ m, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>





Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

Recommended Controllers >>



E01.D1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



E53 Small size, 60mA RS-232/RS-422/USB interface Software secondary development



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