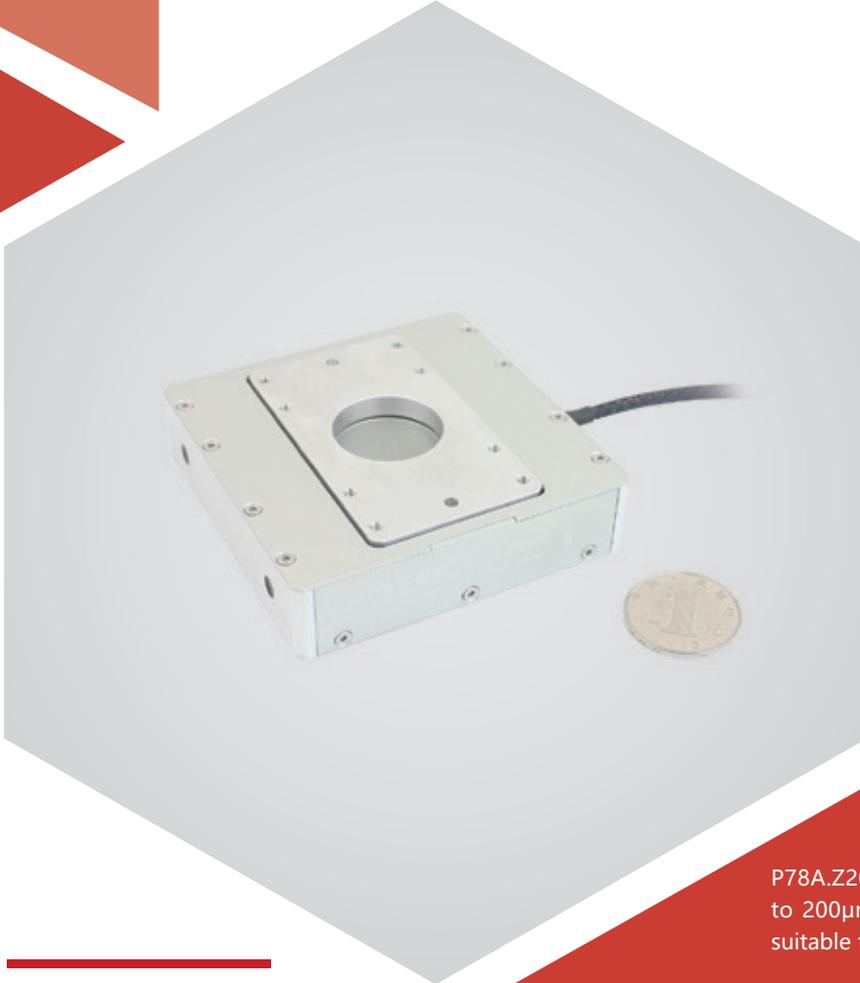


Z axis | P78A.Z200S/K

Piezo Z Nanopositioning Scanners



Introduction

P78A.Z200 piezo scanner moves in Z, its travel is up to 200 μ m, and it features a Φ 25mm aperture that is suitable for light-transmitted application.

Characteristics >>

- Z motion, travel to 200 μ m
- Optional upright, lateral, inverted mounting
- Optional vacuum version

Applications >>

- Surface inspection
- Microscopic imaging
- Optical interference
- Semiconductor processing and testing
- Vacuum environment



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790

Email: info@coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Fax: +86-451-86267847

Web: www.coremorrow.com

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

Technical Data >>

Type	P78A.Z200S	P78A.Z200K	Units
Active axes	Z	Z	
Sensor	SGS	-	
Travel range (0~120V)	160	160	$\mu\text{m}\pm 10\%$
Travel range (0~150V)	200	200	$\mu\text{m}\pm 10\%$
Resolution	10	3	nm
Linearity	0.2	-	%F.S.
Repeatability	0.15	-	%F.S.
Load capacity	Upright 0.2, lateral 0.02, inverted 2		kg $\pm 5\%$
Mass	260	260	g $\pm 5\%$
El. capacitance	28.8	28.8	$\mu\text{F}\pm 20\%$
Material	Steel, Aluminum		
Operating temperature ^[1]	-20~80	-20~80	$^{\circ}\text{C}$
Size(L×W×H)	80×80×21	80×80×21	mm
Cable length ^[2]	1.5	1.5	m $\pm 10\text{mm}$
Sensor/voltage connector ^[2]	-	-	

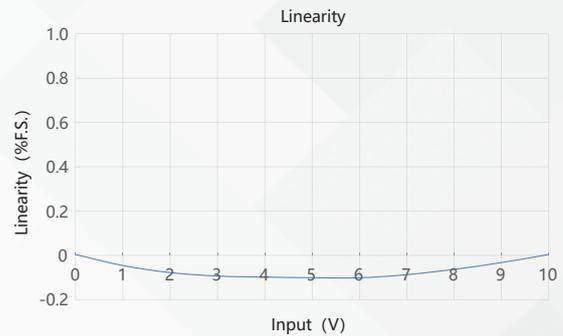
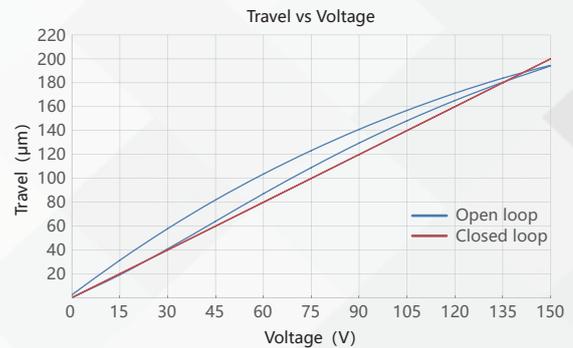
Note: Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25 $^{\circ}\text{C}$.

[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

[2] Custom cable length and connector is available.

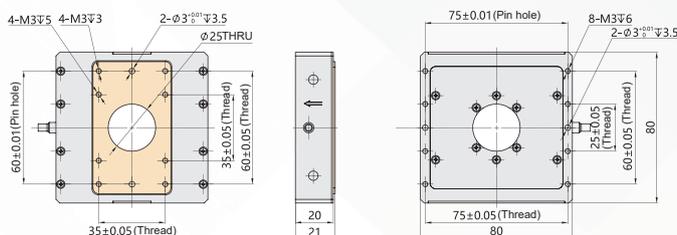
Note: The parallelism of the moving platform is about 20 μm , and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Curves >>



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

Drawing >>



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



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790 Email: info@coremorrow.com

Fax: +86-451-86267847 Web: www.coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai