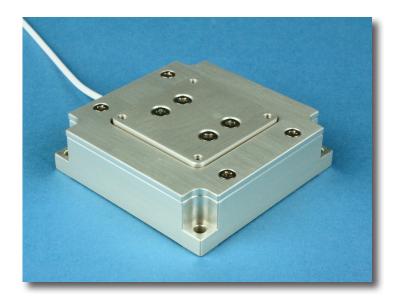
## Nano-MZ

#### **Features**

- ▶ Compact design
- ▶ Low profile: 0.76"
- ▶ Closed loop control
- ▶ Custom travel ranges available
- > pico sensor technology

### **Typical Applications**

- High resolution Z-axis alignment
- ▶ AFM
- ▶ Metrology



#### LabVIEW Compatible **USB** Interfaces



Examples, tutorial, and Nano-Route®3D supplied with Nano-Drive\* USB LabVIEW interfaces.

### **Product Description**

The Nano-MZ is a compact Z-axis nanopositioning system designed to be easily integrated into existing instrumentation where space is restricted. Internal position sensors utilizing proprietary **pico** technology provide absolute, repeatable position measurement with picometer accuracy under closed loop control. The Nano-MZ has the same footprint as other models within the Nano-M Series - see the Nano-M350 and the Nano-Man5. A related model, the Nano-M3Z, includes additional

"tip" and "tilt" motions  $(\theta_X, \theta_Y)$  to the linear motion in the Z-axis.

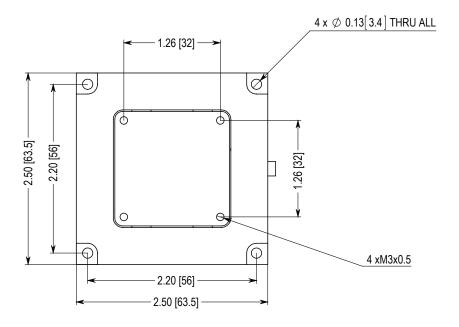
The Nano-MZ can be customized for longer ranges of motion (up to 100 microns) and a center aperture can also be incorporated for transmission of light.

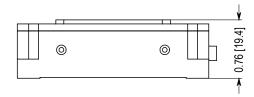


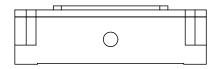
# **Technical Specifications**

Range of motion (Z)	25 μm
Resolution	0.05 nm
Resonant Frequency	1300 Hz ±20%
Stiffness	1.0 N/μm
Recommended max. load (horizontal)*.	0.5 kg
Body Material	Aluminum
Controller	Nano-Drive®

<sup>\*</sup> Larger load requirements should be discussed with our engineering staff.







Note: All Dimensions in Inches [mm]

