

# Ultra High Vacuum Tiny Picomotor™ Actuator

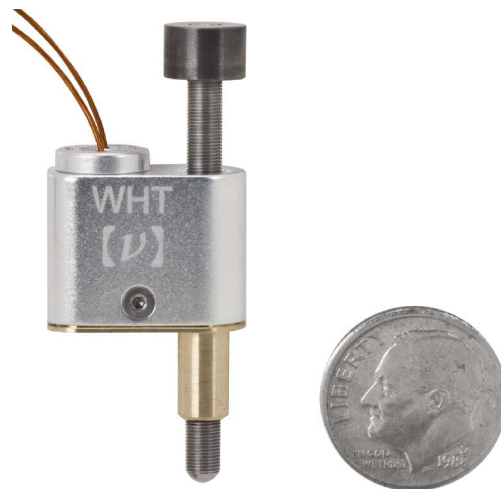


Actual size of 8353-UHV

## Advantages of 8353-UHV

- Small and compact
- Ultra high vacuum compatible ( $10^{-9}$  Torr)
- Outgas less than 5 ppm of volatile mass at 85 °C over 3 hrs
- 0.5 in. (12.7 mm) travel range
- Kapton wires

Derived from our standard 8353 Tiny Picomotor, we are pleased to introduce an ultrahigh vacuum version. The 8353-UHV is designed for use in ultrahigh vacuum applications down to base pressures of  $10^{-9}$  Torr. The 8353-UHV was designed specifically to eliminate virtual leaks and utilizes materials with low outgassing properties. The outgassing rate of this product is less than 5 ppm of volatile mass at 85 °C over 3 hours.



Size comparison of 8353-UHV

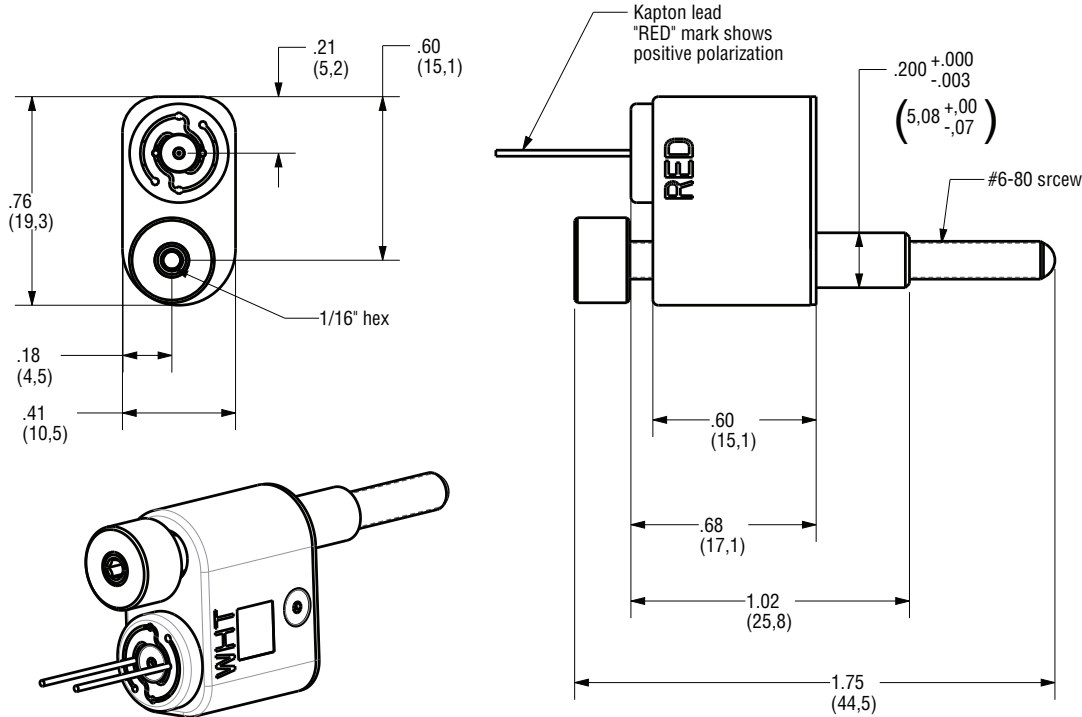
## Specifications

Specifications	8353-UHV
Travel Range (mm)	12.7
Minimum Incremental Motion (nm)	<30
Axial Load Capacity (N)	13
Maximum Torque (My) (Nm)	0.014
Operating Temperature Range (°C)	10 to 40
Vacuum Compatibility	$10^{-9}$ Torr
Wire Type (vacuum rated)	Kapton®
Outside Connector Type (non-vacuum-rated)	4-pin RJ-22
Cable Length [ft. (m)]	7 (2.1)
Mounting Shank [in. (mm)]	0.25 (6.4)



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## 8353-UHV Dimensions



Dimensions in inches (mm)

## Ordering Information

Model	Description
8353-UHV	Ultra-High Vacuum Tiny Picomotor Actuator, 0.5 in. Travel
8742-4-KIT	Four-Axis 8742 Picomotor Controller/Driver Kit
8758	Hand Control Pad for 874X Picomotor Controller/Drivers



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