

## MigaOne<sup>®</sup>

### Features

- Silent operation
- Affordable miniature motion
- Integrated digital controller
- Integrated power drivers
- Low outgassing
- Non-magnetic
- Built-in limit-stop detection
- Suitable for portable devices using high-energy batteries

### Benefits

- Eliminates mechanical and electrical noise
- Affordable for high volume consumer devices
- Compatible with complex as well as simple mechanical systems
- Reduces overall system cost and time to market
- Allows seamless integration with digital systems
- Ideal for use with portable consumer devices

The MigaOne is available now either from the factory, or from our online retailers.

### Contact

Miga Motor Company  
1250 Addison Street #208  
Berkeley, CA 94702

Ph: (510) 486-8301  
Fx: (510) 486-8381  
sales@MigaMotors.com

[www.MigaMotors.com](http://www.MigaMotors.com)

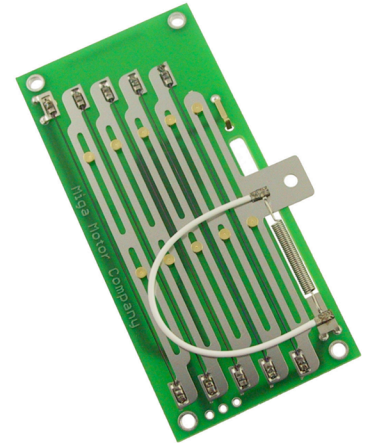
MMC-111808 r1.5

## Linear Shape Memory Alloy Actuator

Miga Motor Company SMA Actuators are the World's thinnest motors: providing high force, long stroke alternatives to old-fashioned motors and solenoids for numerous applications.

Simply connect the MigaOne & MADv5 Analog Switching Circuit to your device and to a standard power supply (such as high energy batteries), and you are ready to turn on Modern Motion from Miga Motor Company.

The MigaOne is ideally suited for use as a latch release mechanism, but can also be used for many other motion applications.



### MigaOne™ Specifications at a Glance

<b>Stroke:</b>	0.35 inches (9mm)
<b>Output Force:</b>	Constant 2.5 lb-f (11 N)
<b>Actuation Time:</b>	50 ms to Position-Hold (Controlled by input voltage or PWM)
<b>Weight:</b>	0.45 ounces (12.8 grams)
<b>Thickness:</b>	0.11" (2.8mm)
<b>Resistance:</b>	3.8 ohms *
<b>10V actuation:</b>	~2.7 amps, 0.5s *
<b>Mounting:</b>	Holes for 4x 2-56 screws
<b>Electrical:</b>	3-Pin header on 0.1" pitch
<b>Operating Temperature:</b>	-20°F to 140°F (-29°C to 60°C)

\*Note: All values are approximate

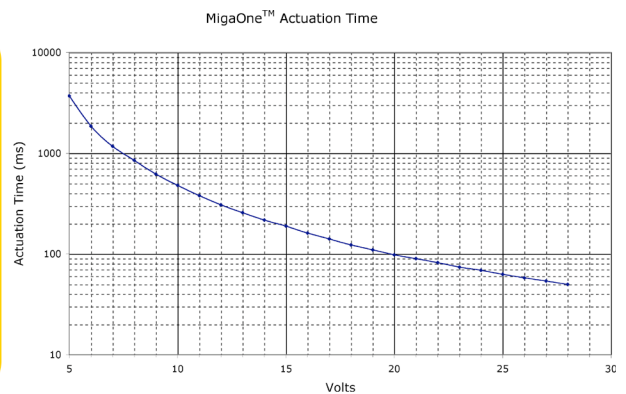
The MigaOne-series of actuators can easily be customized to meet nearly any stroke, force, or power requirement.

Call us today about a custom On-Board SMA Actuator to suit your specific needs.

Actuation speed can be varied either by changing the actuator input voltage, or by using PWM Logic-Gate input signals.

Position control can be done either through an external timing circuit, or use of an external position sensor.

A high level of speed/position control can be achieved!



### Miga Analog Driver v5



Note: The MADv5 can be built directly onto the MigaOne PCB or any custom actuator application

### Motor Dimensions

