MIGA MOTOR COMPANY
MODERN MOTION.®

MigaOne DataSheet

MigaOne ®

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

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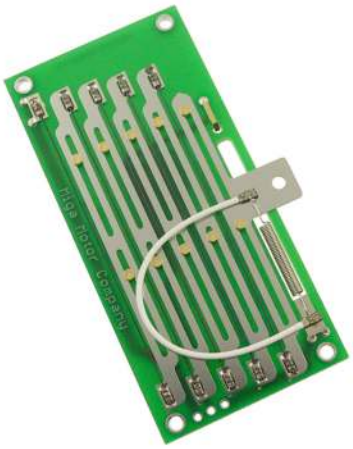
MMC-111808 r1.5

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

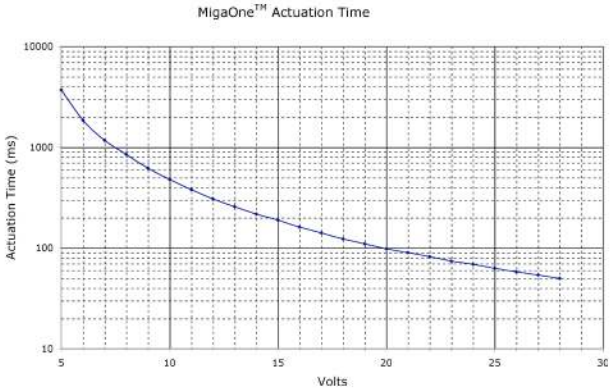
The MigaOne-series of actuators can easily be customized to meet nearly any stroke, force, or power requirement.

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

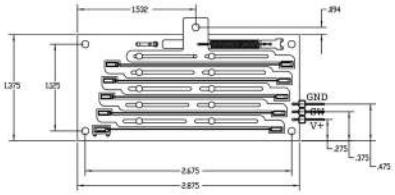
Actuation speed can be varied either by changing the actuator input voltage, or by using PWM Logic-Gate input signals.

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