

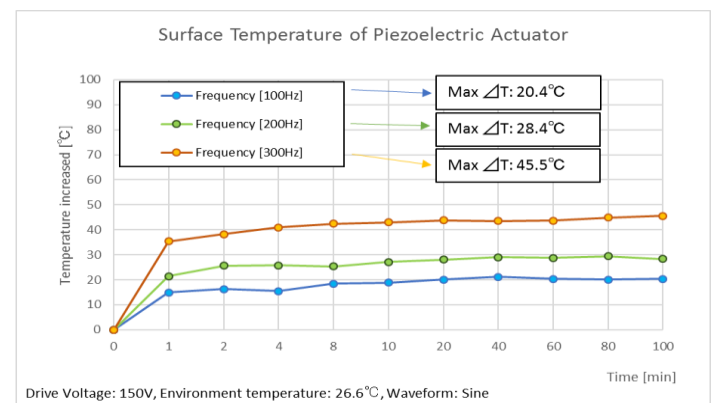
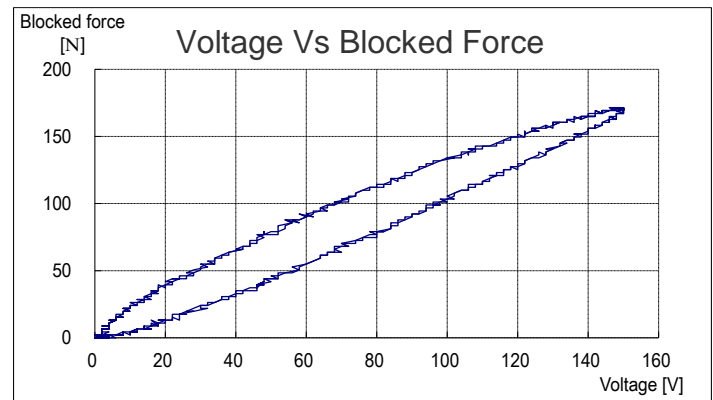
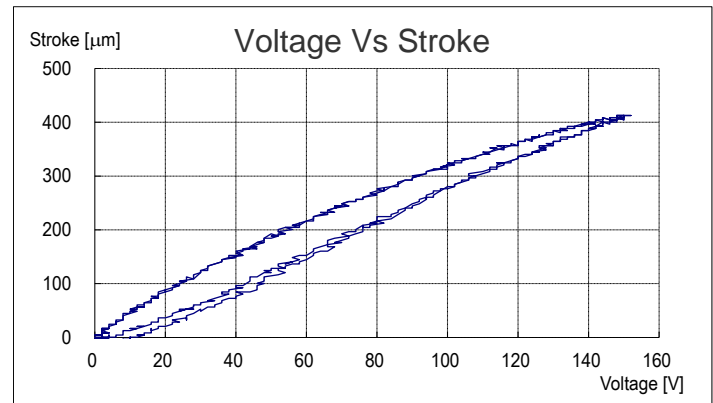
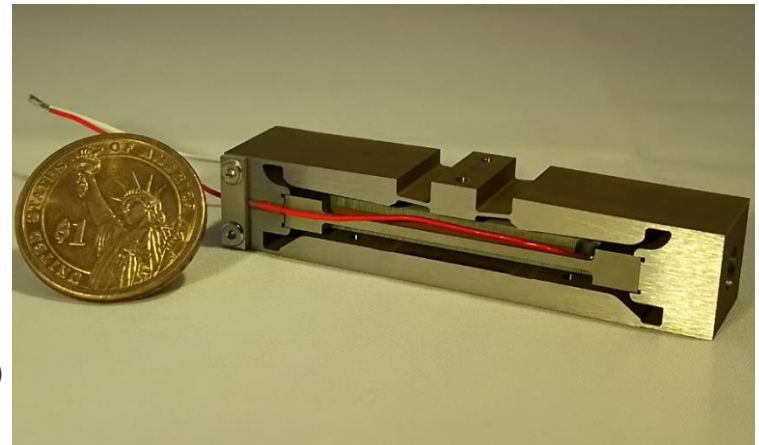
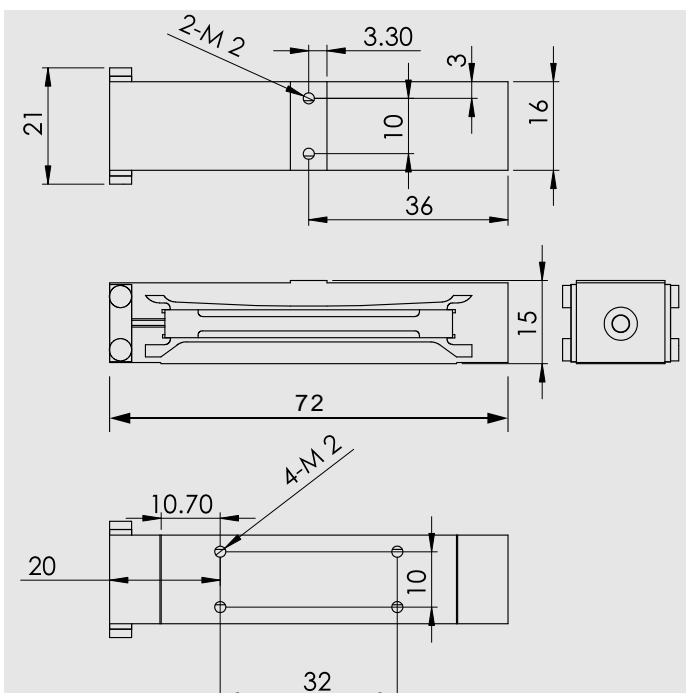
## Specifications

- **Open-loop stroke: 400  $\mu\text{m}$  @ 150V (fixed-free)**
- \*Tolerance value: 320~480  $\mu\text{m}$
- **Operating voltage: -20 V ~ +150 V**
- **Stiffness in motion direction: 0.43 N/ $\mu\text{m}$**
- **Resonance frequency(fixed-free): 1200 Hz**
- \*Tolerance value: 900~1500 Hz
- **Blocked force: 170 N (\*Tolerance value: 136~204N)**
- **Capacitance: 12.5  $\mu\text{F}$**
- **Dimension: 72x21x15 mm**
- **Mechanical interface: 2-M2.0 Tapped hole and 4-M2.0 Tapped hole**
- **Environment: 0 to 85°C with humidity less than 40%**
- **Mass: 98.2 g**
- \*All dimensions and specifications stated are nominal.

### Option:

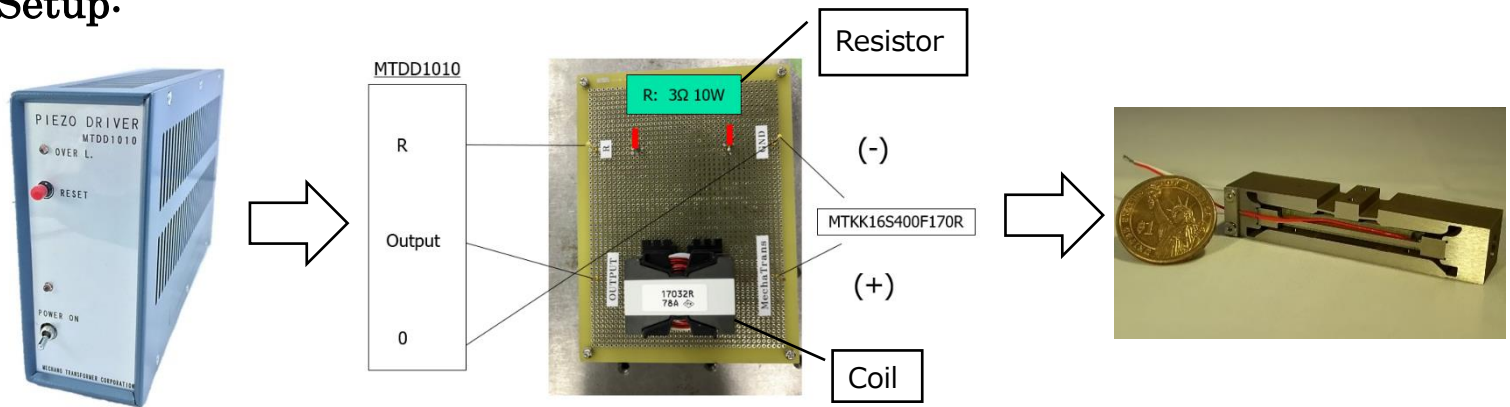
- Mechanical interface can be tailor with an addition option fees.

### Geometry

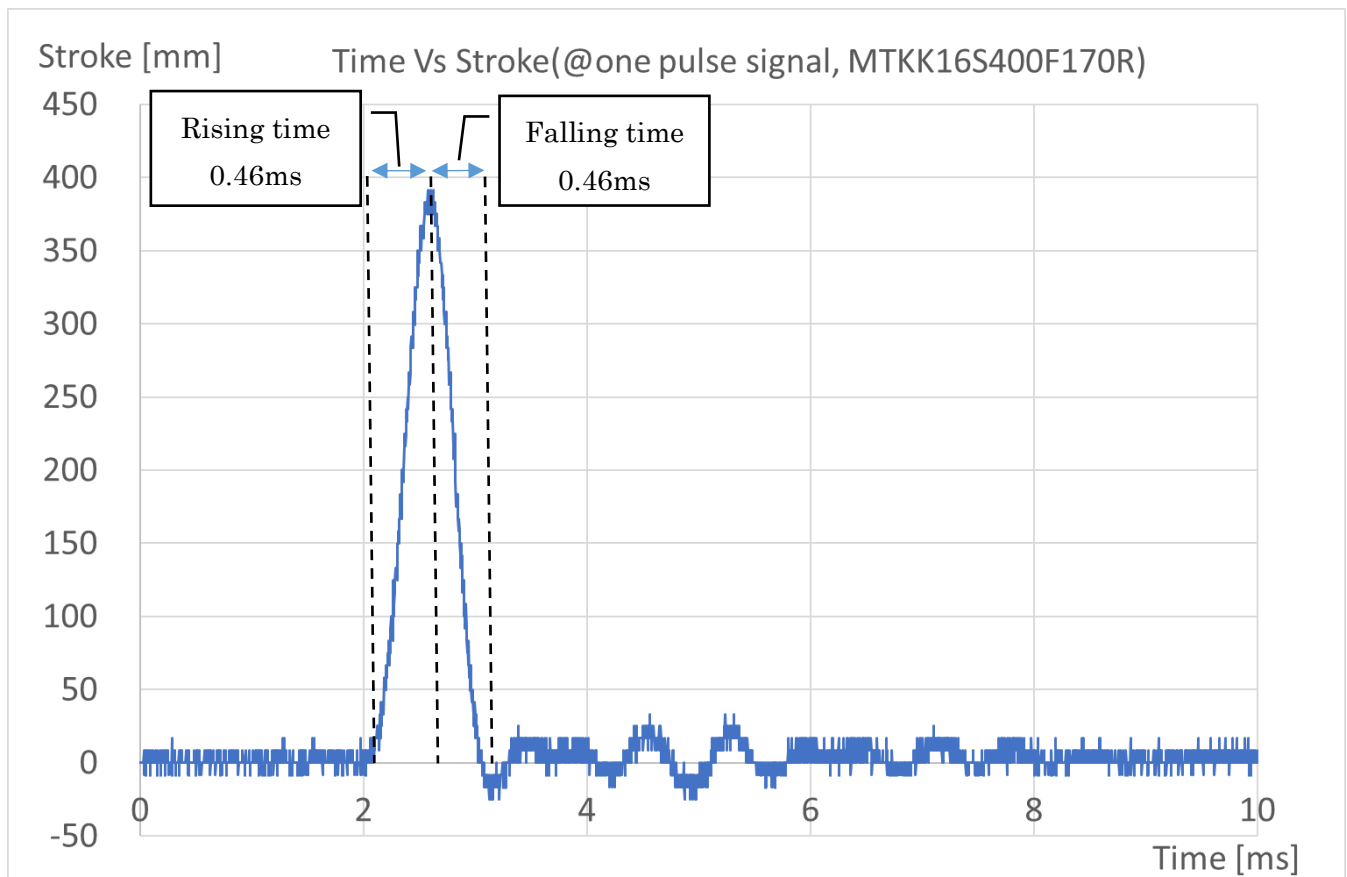


## Note 1 : Single pulse signal with MTDD1010 (External coil and resistor)

### Setup:



### Result:

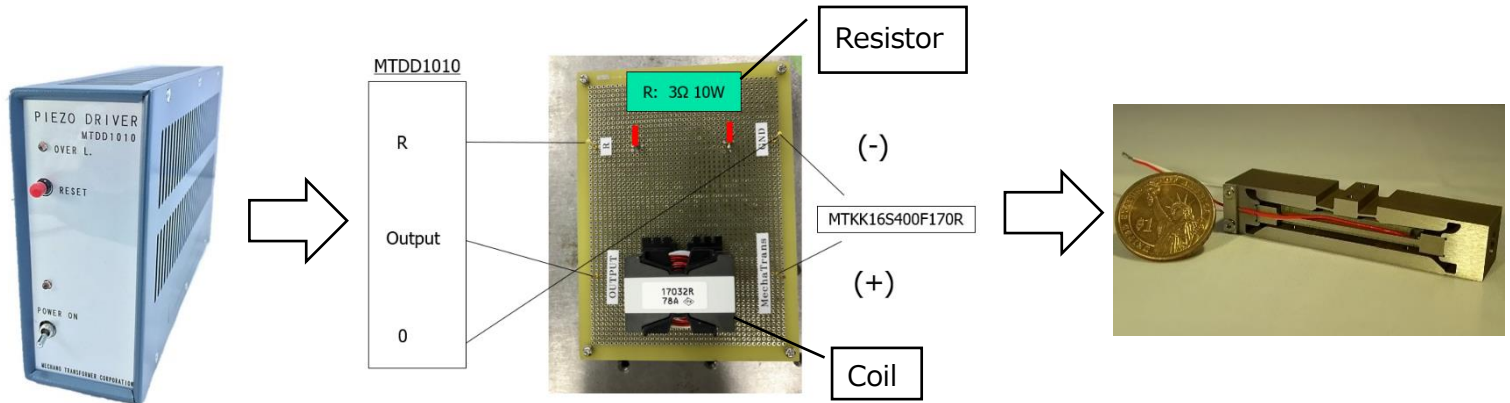


### Conclusion:

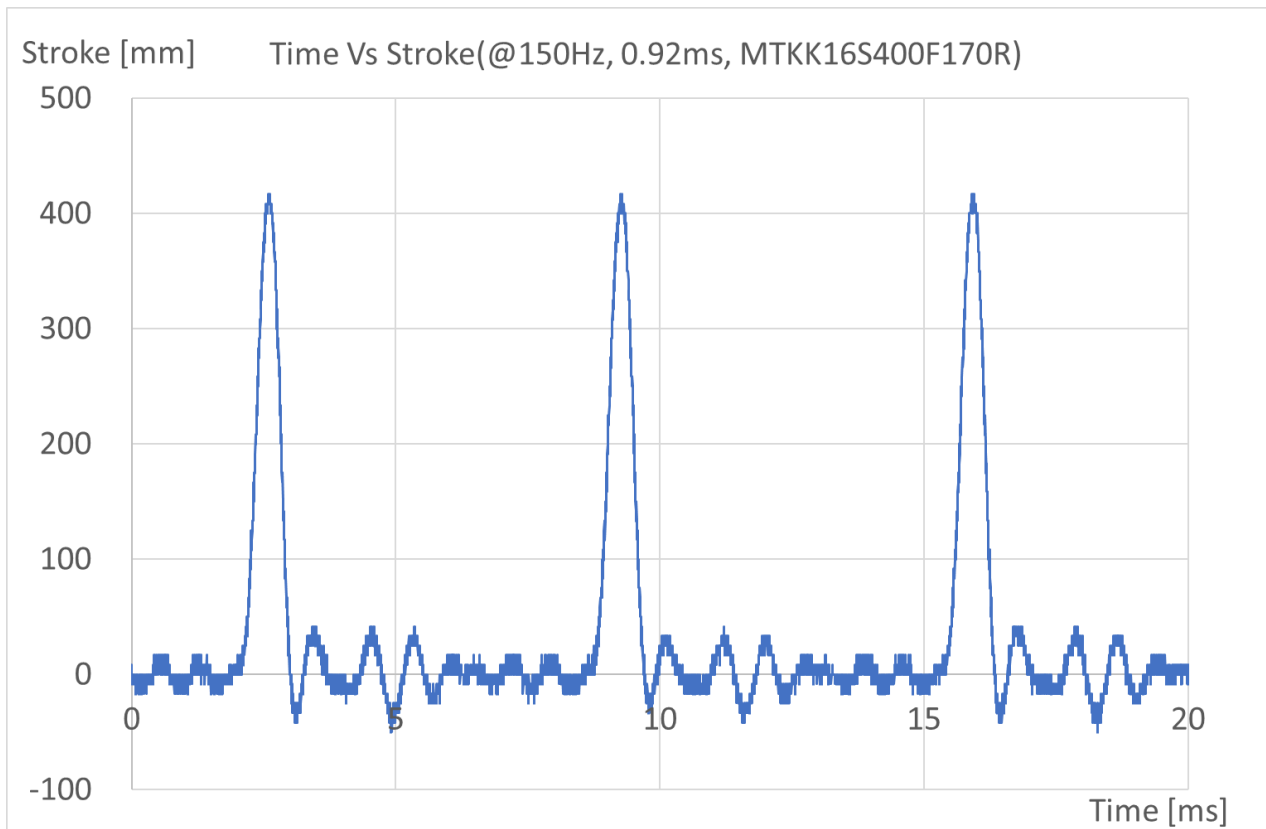
- The MTKK16S400F170R has a short rising time (0.46ms) and short falling time (0.46ms).

## Note 2 : Continuous pulse signal with MTDD1010 (External coil and resistor)

### Setup:



### Result:



### Conclusion:

- The MTKK16S400F170R can be driven continuously with a repeated frequency of 150Hz.
- The rising time and short falling time shown above is 0.46ms.