Product specification

The **DCSA3-R18H82P60** is an integrated structure composed of a piezoelectric ceramic stack, a flexible hinge support structure, and a housing structure. It can achieve a displacement of up to 60.0 μm. The electrodes are led out through a coaxial shielded cable, and the moving cap end, fixed base, and connector can be customized.

DCSA3-R18H82P60

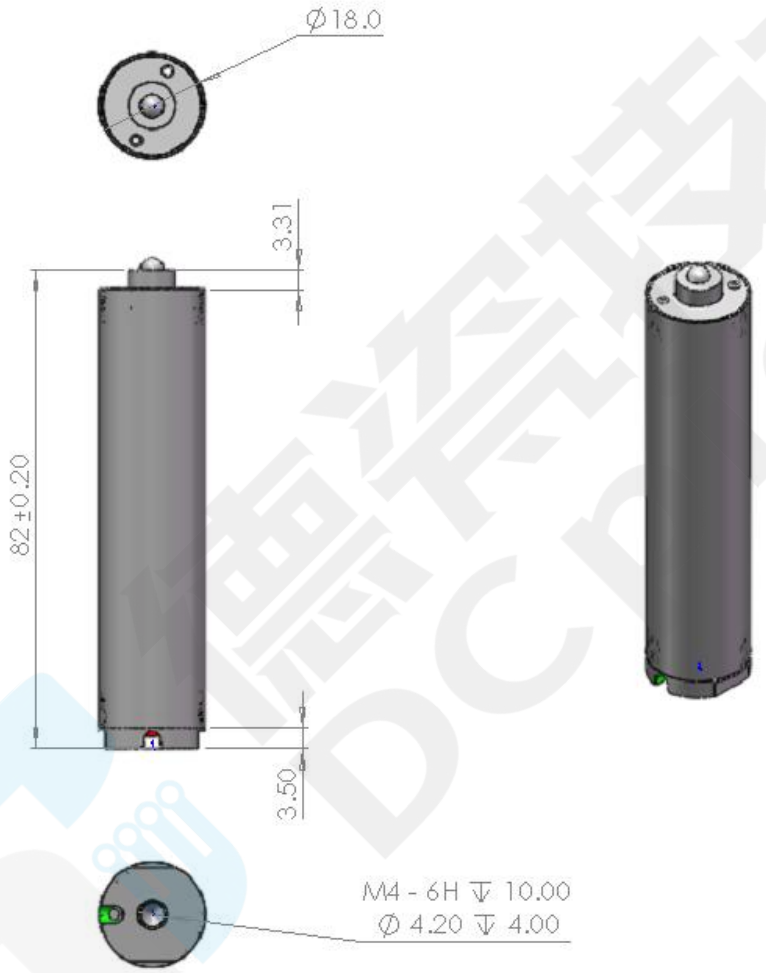
Performance Parameters

Drive Voltage Range	0~150 V	**Capacitance**	20.0μF ± 15%
Displacement (Free Stroke) at 150 V	60.0 μm ± 15%	**Dissipation Factor**	<5.0%
Hysteresis	<15%	**Connection Cable**	RG-178
Tensile Force	200 N	**Blocking Force at 150 V**	3800N
Curie Temperature	230 °C	**Operating Temperature**	-25 ~ 130 °C
Product Size	Outer Diameter: 18.0±0.03mm H: 82.5±0.2mm	**Customizable**	Connection cable, housing, connector, etc.

- All specifications are quoted at 25°C, unless otherwise stated.
- The displacement may vary slightly for different loads, and the maximum displacement occurs when used with the recommended load.

Product specification

Product Size



Performance Curve

(The performance curve is based on actual measurements. The performance curve for customized products will be updated after production is completed.)

- These temperature rises were measured after applying a sine-wave drive voltage ranging from 0 to 150V at the specified frequency for 10 minutes.

Product specification

Matters Needing Attention

1.The piezoelectric actuator contains a piezoelectric stack inside, and the electrodes of the piezoelectric stack are led out through a coaxial shielded cable. The connector is a LEMO connector.

2.The piezoelectric ceramic actuator should be stored in vacuum packaging, and the discharge resistor should remain connected during storage.

3.Do not immerse the piezoelectric stack in organic solvents or expose it to flammable gases or liquids.

4.Do not disassemble the piezoelectric actuator.

5.Handle with care to avoid dropping, as the piezoelectric ceramic actuator is prone to breaking.