



Product specification

The **DCSA3-R20H92P76** 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 76.0 μm . The electrodes are led out through a coaxial shielded cable, and the moving cap end, fixed base, and connector can be customized.



DCSA3-R20H92P76

Performance Parameters

| | | | |
|--|--------------------------------------|--------------------------------|---|
| Drive Voltage Range | 0~150 V | Capacitance | 24.0 μF \pm 15% |
| Displacement (Free Stroke) at 150 V | 76.0 μm \pm 15% | Dissipation Factor | <5.0% |
| Hysteresis | <15% | Connection Cable | RG-178 |
| Tensile Force | 600 N | Blocking Force at 150 V | 3400N |
| Curie Temperature | 230 $^{\circ}\text{C}$ | Operating Temperature | -25 ~ 130 $^{\circ}\text{C}$ |
| Product Size | Outer Diameter: 20.0 \pm 0.03mm | Customizable | Connection cable, housing, connector, etc. |
| | H: 92.0 \pm 0.3mm | | |

- All specifications are quoted at 25 $^{\circ}\text{C}$, unless otherwise stated.
- The displacement may vary slightly for different loads, and the maximum displacement occurs when used with the recommended load.

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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.

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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.