



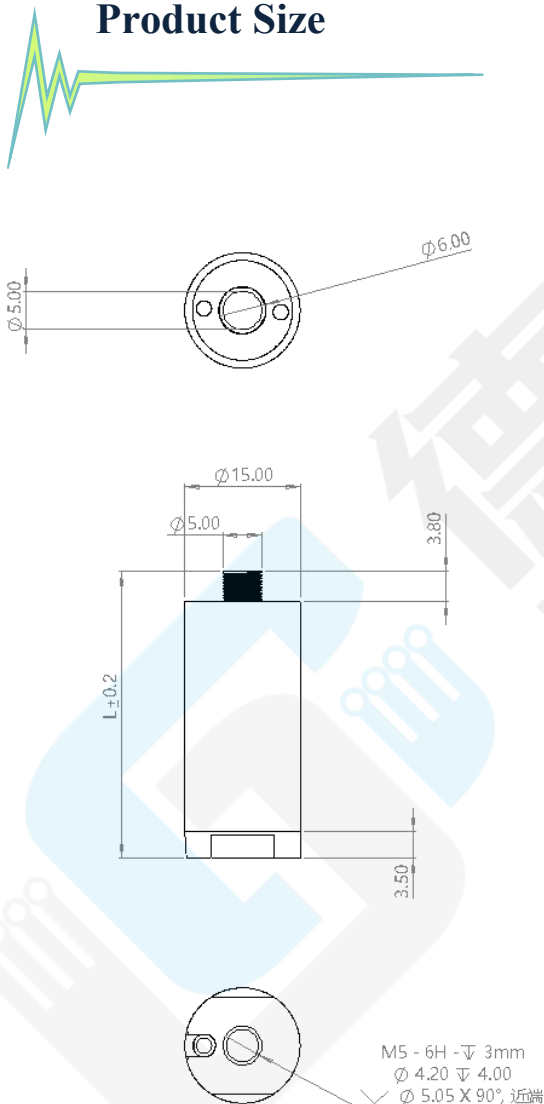
# Product specification

The **DCSA3-R15** is an integrated structure composed of a piezoelectric ceramic stack, a flexible hinge support structure, and a housing. The coaxial shielded wire leads out the electrodes, and the moving cap end, fixed base, and connector can all be customized.



**DCSA3-R15**

## Product Size



型号	长度 L (mm)	行程
R15H37P15	37	15
R15H55P30	55	30
R15H73P45	73	45
R15H91P60	91	60
R15H127P90	127	90



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## Performance Parameters

Model Name	Tolerance Range	R15H37P15	R15H55P30	R15H73P45	R15H91P60	R15H127P90
<b>Motion Mode</b>						
Motion Direction	/	Z	Z	Z	Z	Z
Displacement (0-150V) (μm)	± 15%	15	30	45	60	90
<b>Positioning Method</b>						
Z-axis Fixed End	± 15%	M4 4	M4 4	M4 4	M4 4	M4 4
<b>Drive Performance</b>						
Drive Method	/	Piezo Controller	Piezo Controller	Piezo Controller	Piezo Controller	Piezo Controller
Capacitance (μF)	± 15%	3.4	5	9.5	12	20
Hysteresis	/	<15%	<15%	<15%	<15%	<15%
<b>Mechanical Properties</b>						
Stiffness	/	117	58	39	29	19
Resonant Frequency (kHz)	/	52	35	24	19	11
Z-axis Thrust (N)	/	1760	1760	1760	1760	1760
Z-axis Tension (N)	/	200	200	200	200	200
Material	/	Stainless Steel (304)	Stainless Steel (304)	Stainless Steel (304)	Stainless Steel (304)	Stainless Steel (304)
Outer Diameter	±0.05	φ 15	φ 15	φ 15	φ 15	φ 15
Length (mm)	±0.3	37	55	73	91	127
<b>Other</b>						
Operating Temperature Range (°C)	/	-25 ~ 130	-25 ~ 130	-25 ~ 130	-25 ~ 130	-25 ~ 130
Cable	/	RG-178	RG-178	RG-178	RG-178	RG-178
Connector Model	/	PFG.0B.302.GLLD30Z				
Cable Length (mm)	/	>350	>350	>350	>350	>350

- 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.

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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.

## 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.