



Product specification

The DCSA3-R20 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.

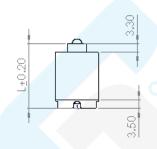


DCSA3-R20

Product Size







型号	长度 L (mm)	行程				
R20H37P20	37	20				
R20H55P40	55	40				
R20H73P55	73	55				
R20H91P75	91	75				
R20H127P100	127	100				







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Performance Parameters

Model Name	Tolerance Range	R20H37P20	R20H55P40	R20H73P55	R20H91P75	R20H127P100
		N	Totion Mode			
Motion Direction	/	Z	Z	Z	Z	Z
Displacement (0-150V) (μm)	± 15%	20	40	55	75	100
		Posi	tioning Metho	od		
Z-axis Fixed End	±15%	M4↓ 4				
	ı	D	rive Performance			
Drive Method	/	Piezo Controller	Piezo Controller	Piezo Controller	Piezo Controller	Piezo Controller
Capacitance (µF)	± 15%	7	10	16	24	36
Hysteresis	/	<15%	<15%	<15%	<15%	<15%
		Mech	anical Proper	ties		-
Stiffness	/	190	95	69	50	38
Resonant Frequency (kHz)	/	52	35	24	19	11
Z-axis Thrust (N)	/	3800	3800	3800	3800	3800
Z-axis Tension (N)	/	200	200	200	200	200
Material	//@	Stainless Steel (304)				
Outer Diameter	±0.05	∮ 20	∮ 20	∮ 20	∮ 20	∮ 20
Length (mm)	±0.3	37	55	73	91	127
			Other	1	1	'
OperatingTemperature 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)	1	>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.