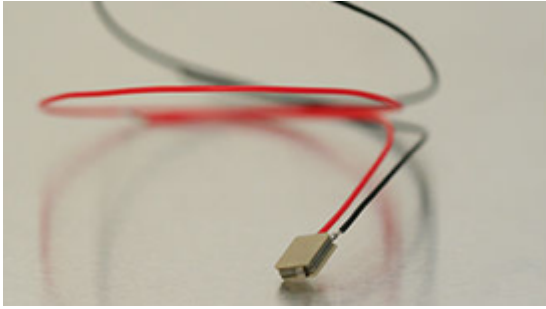


NAC2902-H4



The Noliac shear stack NAC2902-H4 features shear motion on the X/Y-axis. NAC2902-H4 measures 5x5 mm with a height of 4 mm and provides a free stroke of 3/3 μm and a capacitance of 1.7/1.7 nF.

SPECIFICATIONS

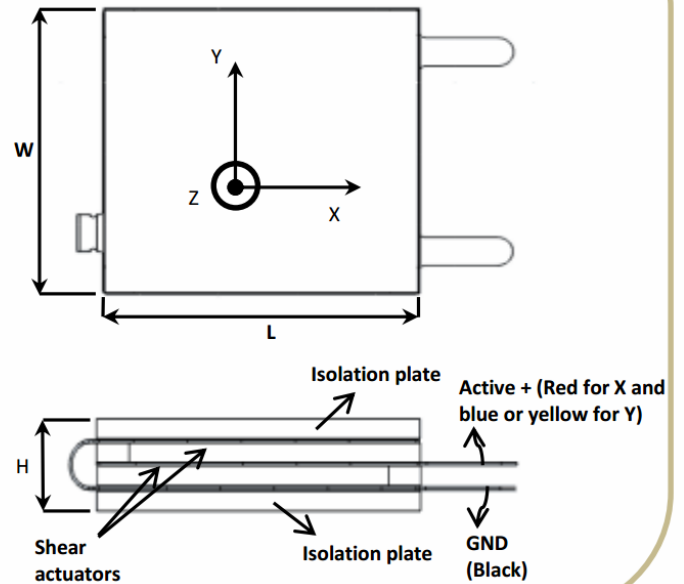
Attributes	Value	Tolerance
Chamfers	X/Y 0,00	
Length / outer diameter	5 mm	+/-0.20 mm
Width / inner diameter	5 mm	+/-0.20 mm
Height	4 mm	+/-0.05 mm
Operating voltage, max.	$\pm 320 \text{ V}$	
Free stroke, from -Vmax to +Vmax	3 μm	+/- 20%
Capacitance	1.70 nF	+/- 20%
Maximum operating temperature	150 °C	
Material	NCE51	
Unloaded resonance frequency	220/ 220 kHz	
Electrodes	0,00	

Multi-axis piezoelectric shear actuator stacks

Standard features

- X and X/Y motions
- Smart design
- -320 V to +320 V maximum operating voltage for all motions
- Ideal for all stick and slip and nanopositioning applications
- Top and bottom isolations included
- Non-magnetic ultra-thin electrodes

The informative here opposite drawing is for a 2 shear plate configuration of X-motion. See the table below for other standard offers.



WIRES

As standard, the shear stacks are delivered with these wires:

- 28 AWG PTFE Insulated Wires (red for X-motion and blue or yellow for Y-motion)

Please contact us for other wiring options.

Colour code

- Isolation plate: yellow
- Shear plate actuators X-motion: red
- Shear plate actuators Y-motion: blue
- Electrodes: grey

End plates

As standard, the shear stacks are enclosed with 2 isolation end plates made from non-polarized piezoelectric material.

Please contact us for other options. Read more about [Noliac end plates](#).

Electrodes

As standard, the shear stacks are delivered with with these electrodes:

- Stainless steel 1.4304

Please contact us for other electrode options.