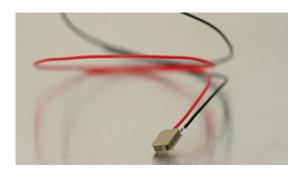


NAC2902-H4



The Noliac shear stack NAC2902-H4 features shear motion on the X/Y-axis. This product is ideal for stick-slip and nanopositioning applications. NAC2902-H4 measures 5x5 mm with a height of 4 mm and provides a free stroke of 3/3 μ m and a capacitance of 1.7/1.7 nF. End plates on top and bottom are included. The shear stack has ultra thin electrodes made of standard steel as standard.

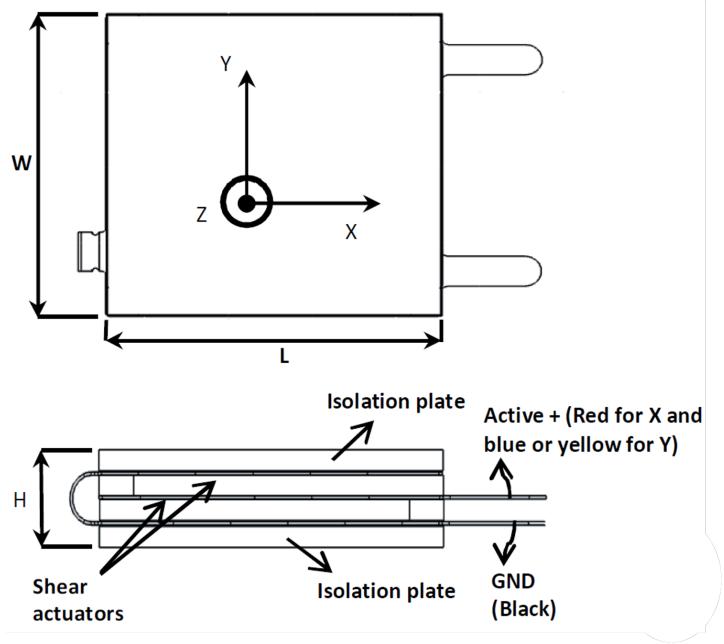
SPECIFICATIONS

Attributes	Value
Chamfers	X/Y 0.00
Length / outer diameter	5 mm
Width / inner diameter	5 mm
Height	4 mm
	222.1
Operating voltage, max.	± 320 V
Free stroke, from -Vmax to +Vmax	3 µm
Capacitance	1.70 nF
Maximum operating temperature	150 °C
Material	NCE51
Unloaded resonance frequency	220/ 220 kHz
Electrodes	-
Remarks	-

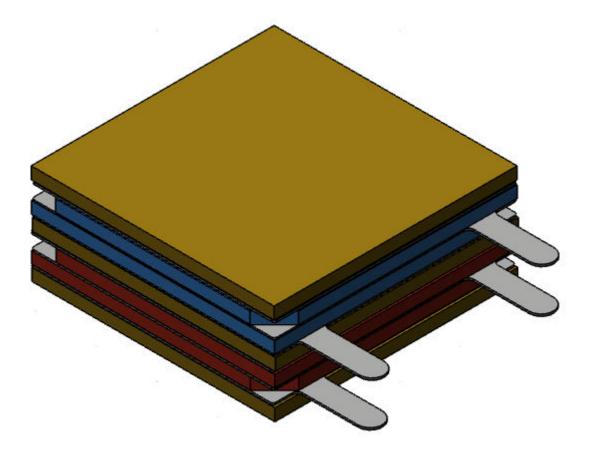
Tolerance +/-0.20 mm +/-0.20 mm Whichever is largest: 2% or +/-0.2 mm +/- 20% +/- 20%

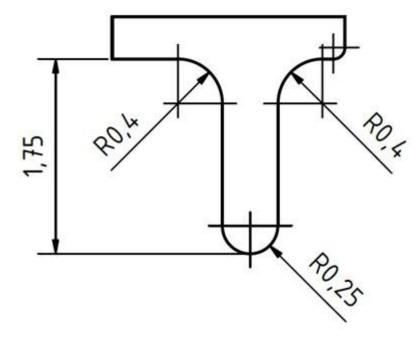
DRAWINGS

Shear stack principle



3D drawing





WIRES

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

• BS 3G 210 TYPE A, 28 AWG (red for X-motion and blue or yellow for Y-motion).

The types and colours of the wires can be changed upon request.

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 1.4301

Please contact us for other electrode options.