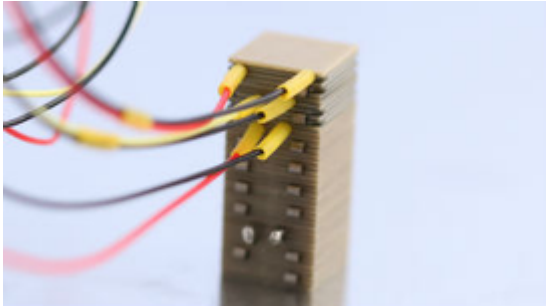


NAC3402-H12.6

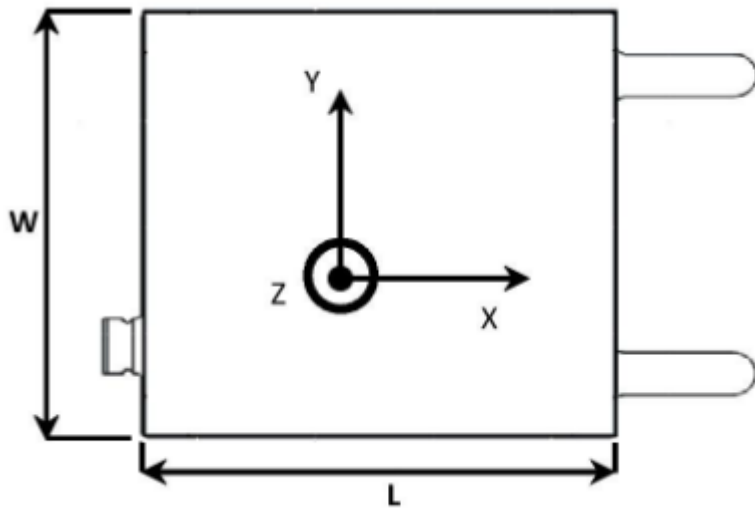


The Noliac shear stack NAC3402-H12.6 features motion in the X/Y/Z-axis. NAC3402-H12.6 measures 5x5 mm with a height of 12.6 mm and provides free stroke of 3/3/3 μm and a capacitance of 1.7/1.7/11.1 nF.

SPECIFICATIONS

Attributes	Value	Tolerance
Chamfers	X/Y/Z	
Length / outer diameter	5 mm	+/-0.20 mm
Width / inner diameter	5 mm	+/-0.20 mm
Height	12.6 mm	+/-0.05 mm
Operating voltage, max.	$\pm 320 \text{ V}$	
Free stroke, from -Vmax to +Vmax	3 μm	+/- 20%
Capacitance	1.7/1.7/11.1 nF	+/- 20%
Maximum operating temperature	150 °C	
Material	NCE51	
Unloaded resonance frequency	106/106/106 kHz	

DRAWINGS



MOUNT AND CONNECT

Colour code

- Isolation plate: yellow
- Shear plate actuators X-motion: red
- Shear plate actuators Y-motion: blue
- Shear plate actuators Z-motion: clear yellow
- 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](#).

Operating voltage

From $-V_{max} = -320$ V to $+V_{max} = +320$ V for X, Y and Z motions

Free stroke

Free stroke have been measured at room temperature

Operating temperature

Standard operating temperature from -25 °C to 85 °C

Capacitance

Capacitance is measured at 1 Vpp, 1kHz

WIRES

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

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

Please contact us for other wiring options.

Electrodes

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

- Stainless steel 1.4304

Please contact us for other electrode options.

Read more under the tab Mount and connect.