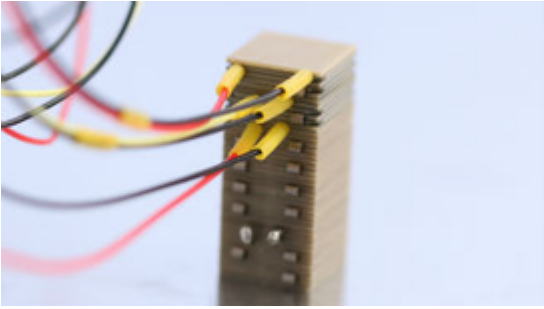


NAC3403-H23.1

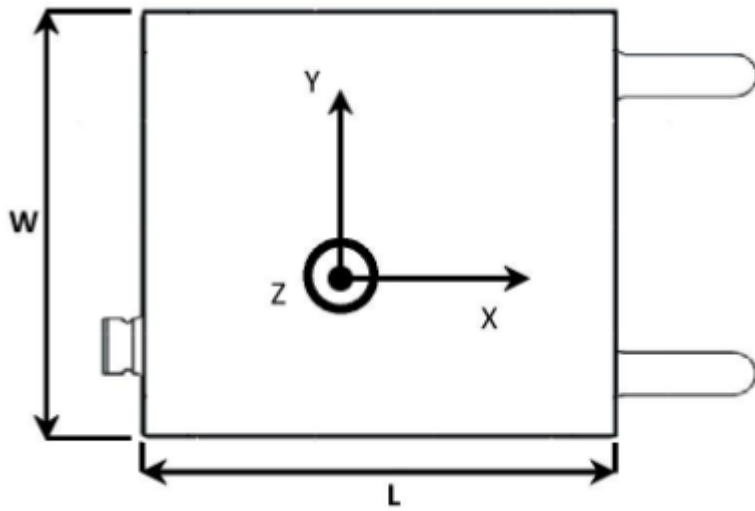


The Noliac shear stack NAC3403-H23.1 features motion in the X/Y/Z-axis. NAC3403-H23.1 measures 10x10 mm with a height of 23.1 mm and provides free stroke of 6/6/6 μm and a capacitance of 13.3/13.3/85.4 nF.

SPECIFICATIONS

| Attributes | Value | Tolerance |
|----------------------------------|------------------------|------------|
| Chamfers | X/Y/Z | |
| Length / outer diameter | 10 mm | +/-0.20 mm |
| Width / inner diameter | 10 mm | +/-0.20 mm |
| Height | 23.1 mm | +/-0.05 mm |
| Operating voltage, max. | $\pm 320 \text{ V}$ | |
| Free stroke, from -Vmax to +Vmax | 6 μm | +/- 20% |
| Capacitance | 13.3/13.3/85.4 nF | +/- 20% |
| Maximum operating temperature | 150 $^{\circ}\text{C}$ | |
| Material | NCE51 | |
| Unloaded resonance frequency | 60/60/60 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 Mount and connect.