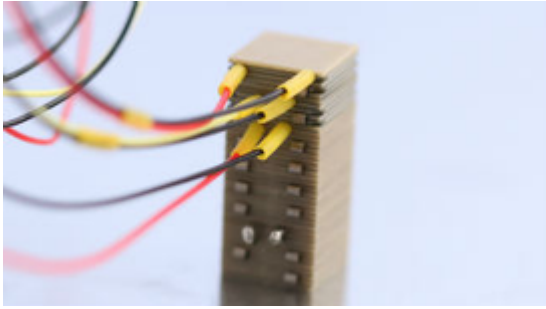


## NAC3403-H23.1

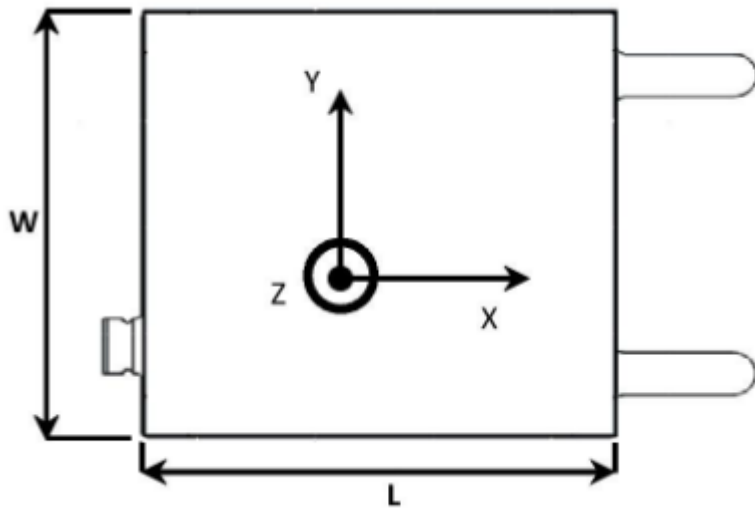


The Noliac shear stack NAC3403-H23.1 features motion in the X/Y/Z-axis. NAC3403-H23.1 measures 10x10 mm with a height of 23.1 mm and provides free stroke of 6/6/6  $\mu\text{m}$  and a capacitance of 13.3/13.3/85.4 nF.

### SPECIFICATIONS

Attributes	Value	Tolerance
Chamfers	X/Y/Z 0,00	
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 $\mu\text{m}$	+/- 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	
Electrodes	0,00	

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

### Free stroke

Free stroke have been measured at room temperature

### Operating temperature

Standard operating temperature from  $-25 \text{ }^{\circ}\text{C}$  to  $85 \text{ }^{\circ}\text{C}$

### Capacitance

Capacitance is measured at  $1 \text{ V}_{\text{pp}}$ ,  $1 \text{ kHz}$

## 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.