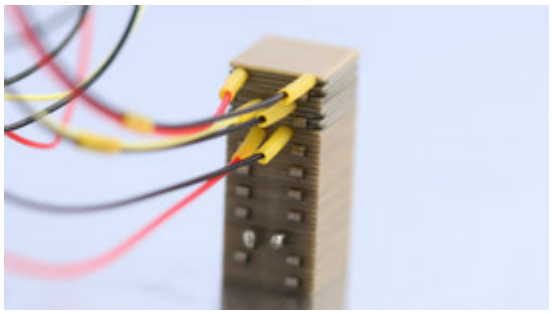
noliac Your piezo partner

NAC3404-H12.6

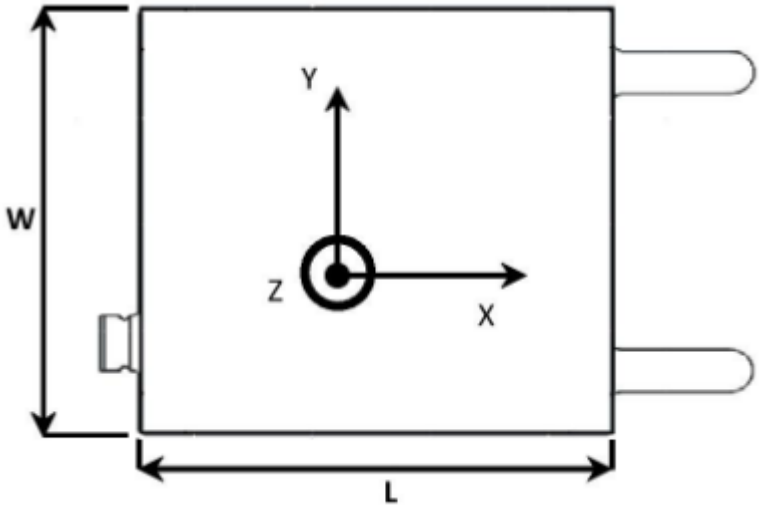


The Noliac shear stack NAC3404-H12.6 features motion in the X/Y/Z-axis. NAC3404-H12.6 measures 15x15 mm with a height of 12.6 mm and provides free stroke of 3/3/3 µm and a capacitance of 14.9/14.9/92.8 nF.

SPECIFICATIONS

Attributes	Value	Tolerance
Chamfers	X/Y/Z	
Length / outer diameter	15 mm	+/-0.20 mm
Width / inner diameter	15 mm	+/-0.20 mm
Height	12.6 mm	+/-0.05 mm
Operating voltage, max.	± 320 V	
Free stroke, from -Vmax to +Vmax	3 µm	+/- 20%
Capacitance	14.9/14.9/92.8 nF	+/- 20%
Maximum operating temperature	150 °C	
Material	NCE51	
Unloaded resonance frequency	86/86/86 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 -Vmax = -320 V to +Vmax = +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.