

OBJECTIVE

The evaluation pack aims at an easy evaluation of the Cedrat Technologies' offer in static conditions. It includes:

- An amplified actuator APA120S
- A linear amplifier Cau10
- Connectors

The actuator APA 120S can bear load up to 0.5 kg over 140 μ m and in a compact size. The CAU10 can deliver a voltage up to 150V and has 2 channels.

CEDRAT TECHNOLOGIES ACTUATORS

Cedrat Technologies designs two main types of actuators: PPA (Parallel Pre-stressed actuators) and APA[®] (Amplified Piezo Actuators).

The main features of these actuators are pointed out:

- A good compacity relative to their stroke achieving deformation up to 10%
- A simple internal design and an easy interface
- A ceramic preload sizing with the shell structure
- An operation with a wide frequency range from quasistatic to ultrasonic applications

PERFORMANCES

Please refer to the data sheet of the [APA120S](#) and of the [CAU10](#) for technical specifications and drawings.

The typical diagram stroke/frequency in no load conditions is presented in Fig3.

The main features enlightened by the evaluation pack are:

- A high stiffness of the actuator
- A nanometer resolution
- A good repeatability
- An excellent reliability
- An easy implementation
- A low cost of ownership

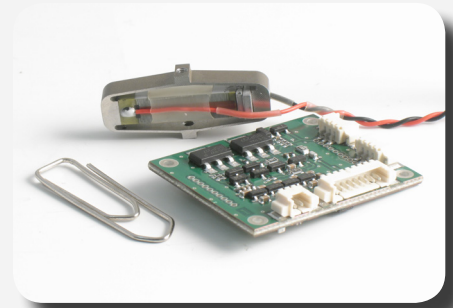


Fig1: Evaluation Pack EP120S

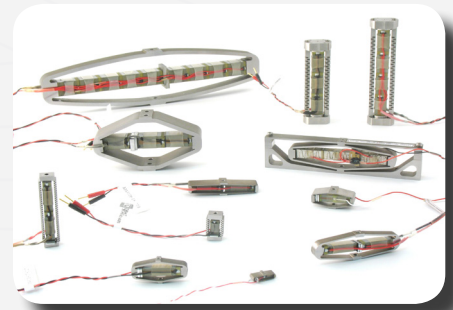


Fig2: CEDRAT TECHNOLOGIES Actuators

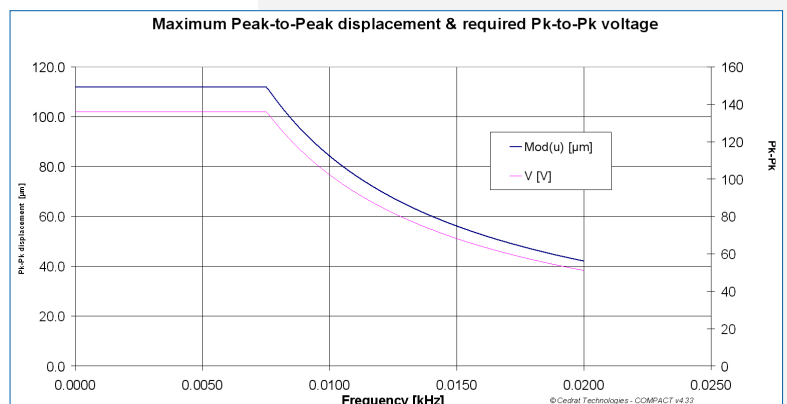


Fig3: Displacement of the actuator APA 120S supplied by an amplifier CAU10 in no-load conditions

For more information, please contact:

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