

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

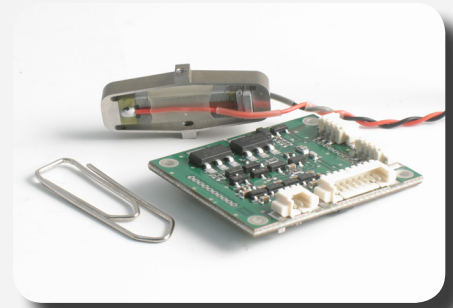


Fig1: Evaluation Pack EP120S

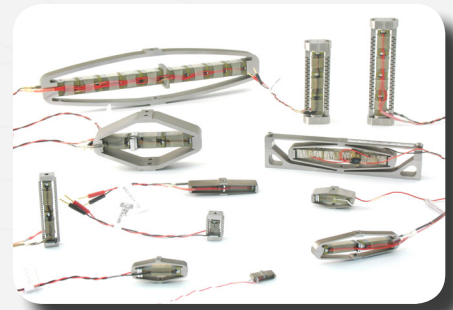


Fig2: CEDRAT TECHNOLOGIES Actuators

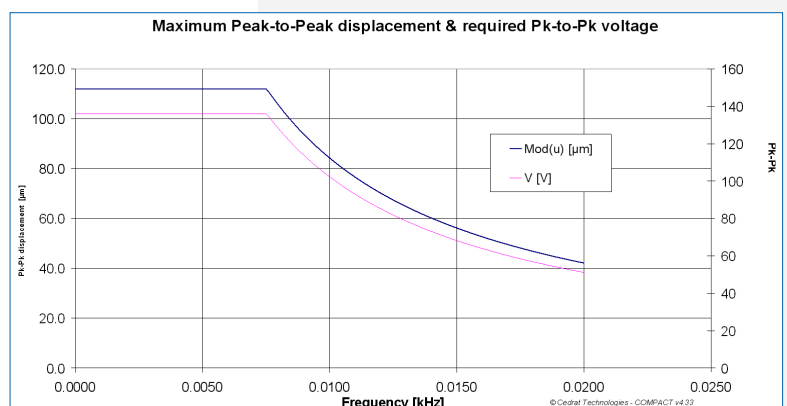


Fig3: Displacement of the actuator APA 120S supplied by an amplifier CAU10 in no-load conditions

For more information, please contact:

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