



Evaluation Pack: APA120S and CA μ 10 Amplifier

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 CA μ 10
- Connectors



Fig1: Evaluation Pack.

The actuator APA120S can bear load up to 0.5 kg over 140 μ m and in a compact size. The CA μ 10 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

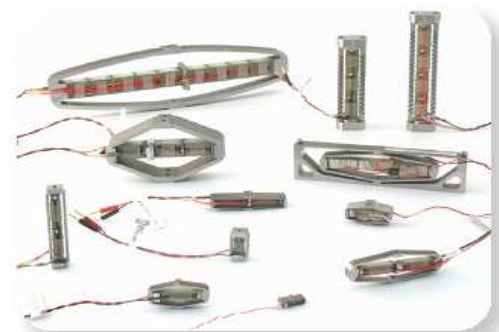


Fig2: Cedrat Technologies actuators.

Performances

Please refer to the data sheet of the APA120S and of the CA μ 10 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

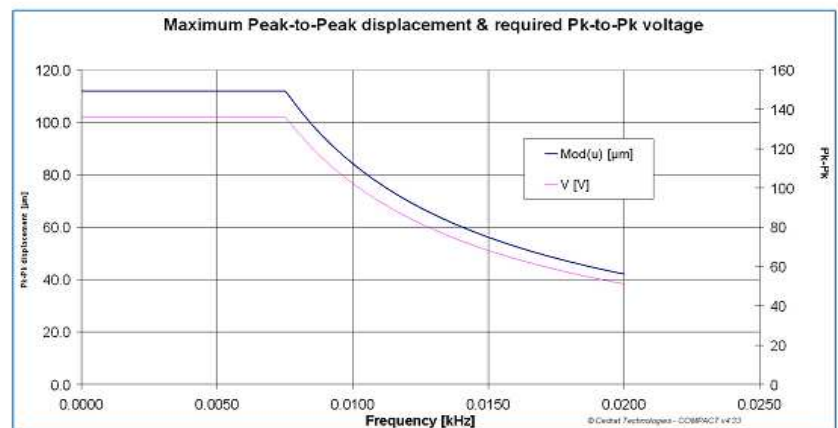


Fig3: Displacement of the actuator APA120S supplied by an amplifier CA μ 10 in no-load conditions

[Contact Optoprim for more information](#)