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T1824A Optical Breadboard - 1.5' x 2' x 2"

- Flatness: ± 0.004 " Per 24"
- Bottom Tapped Mounting Holes
- 2" (50mm) Thick Nominal
- Magnetic 400 Series 1/8" Stainless Steel Top & Bottom

For a vibrating force applied to an optical table, the "compliance" is defined as the ratio of the displacement of the optical table to the magnitude of the vibrating force. Keep in mind that the displacement is actually a flexing of the optical table, typically characterized as one of its fundamental bending modes.

In the compliance plot, we show a straight line that represents the compliance of an "ideal rigid body". The slope of the mass line is proportional to the inverse square of the driving frequency. The location of the mass line is dependent on the mass properties of the table (mass, inertia) and the measurement point.

Returning to our real compliance plot, we note that the compliance of the T1824A breadboard begins to drop below the "ideal rigid body" line at about 100Hz. This drop which is a desirable effect, is due to the simultaneous excitation of various modes of vibration in the plate. The compliance drops can be thought of as "quiet" spots on the plate where the displacement, for a given excitation point and driving frequency, is very small.

Continuing to higher frequencies, the first resonant peak occurs at 640Hz. The fact that the first resonant peak occurs at such a high frequency is strong testament to the quality of the design of these boards. For comparison, consider that most environmental noise is concentrated between 0.1 and 200Hz.



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