



dm1

high frequency vibration exciter

Application

dm1 is specially designed for the demands of high frequency vibration calibration and testing. Due to its unique electrodynamic drive technology dm1 achieves high force and thus acceleration rating. A special designed flexure bearing system combines the performance needed for high class calibration and the robustness for testing without the need of compressed air. The technical ceramic used to make the armature of the shaker is responsible for the broad frequency range up to 50 kHz and the robustness against wear.

Features

- Highest force and bandwidth
- Built in standard accelerometer
- Ceramic armature – robust and non hazardous
- Flexure bearing – high performance without need of cleaned and compressed air



Technical Data

- Frequency range: 5 Hz – 50 kHz, First axial resonance > 50 kHz
- Force rating: max. 70 N / 100 N (continuous / interval)
- Maximum acceleration: 280 m/s² pk / 400 m/s² pk (continuous / interval)
- Maximum usable stroke: 8 mm (pk-pk)
- Cross motion: according to ISO 16063 -11 / 21 (5 - 10 % up to 50 kHz)
- Internal reference standard (IEPE, 1 mV/m/s²), Smooth response > 50 kHz
- Max. payload: 350 gram, max. side load: 30 N
- Magnetic stray field: 5 mT at DUT position



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Dimensions and Weight

- Height: 120 mm
- Weight: 12 kg

Remarks

- Technical data achieved with 500 W Power Amplifier (BEAK BAA500)
- All data refer to room temperature

