ET-127 Electrodynamic Transducer



GENERAL DESCRIPTION

The Labworks ET-127 is a high performance general purpose Electrodynamic Transducer which is well suited for a wide variety of vibration testing. This shaker features a lightweight armature which allows smaller test articles to be subjected to high frequencies and accelerations. At the same time, the large table and rugged armature suspension easily accomodate larger loads, thus eliminating or reducing external fixture guidance and support requirements.

The unique "side load" restraint armature guidance system ensures that the suspension is axially compliant and radially rigid. Use of the latest high-tech composite materials provides reliable operation when large displacements are required, as in modal testing of large structures.

In order to adapt the shaker to specific test requirements a host of options are available, including pneumatic payload support, a unitized shaker and slip table base, custom fixtures and low frequency trunnion isolation.

- 500 POUNDS PEAK SINE FORCE
- 1.0 INCH STROKE
- 6.0 INCH DIAMETER TABLE
- 100g ACCELERATION, BARE TABLE
- TRUNNION BASE



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STANDARD FEATURES

- AIR COOLED
- LOW STRAY MAGNETIC FIELD
- HIGH LATERAL STIFFNESS ARMATURE SUSPENSION
- TRUNNION BASE



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ET-127 SPECIFICATIONS¹

PERFORMANCE

Sine force 500 lbf pk Random force 350 lbf rms

Shock force 1000 lbf pk, 50 msec

Max displacement

Continuous pk-pk 1.0 in
Between stops 1.2 in
Maximum velocity 70 ips pk

Acceleration 1,2

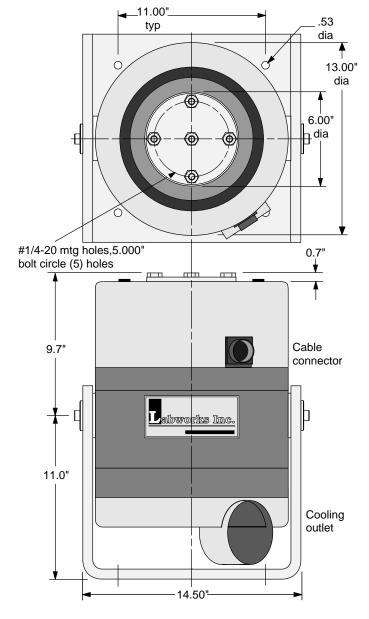
Bare table 100 g pk 5 lb load 50 g pk 20 lb load 20 g pk

Maximum acceleration

Resonant 120 g pk Peak shock 150 g pk

- ¹ Please see systems ratings for additional specifications.
- ² Load dependent.

Specifications subject to change. Consult factory for latest specifications.



PHYSICAL

Armature weight 5.0 lb
Suspension stiffness 250 lb/in
Rated armature current 40 A rms
Frequency range ² DC-4,500 Hz
Fundamental resonance ² 3,000-4,000 Hz

Stray magnetic field

Measured 3.0" above table <10 gauss Measured 2.0" from body <15 gauss

Cooling 300 CFM @ 1 inch H₂0 Dimensions 21" H x 14.5" W x 14" D

Shaker weight 475 lbs

OPTIONS

DuoBase slip table assembly. Vibration isolation mounts. Pneumatic internal load support