ET-126B  Electrodynamic Transducer

GENERAL DESCRIPTION

The Labworks ET-126B Electrodynamic Transducer is a portable shaker that is ideally suited for all types of general vibration testing. Its small size and weight make it ideal for use in research and modal testing.

The shaker has a large 2.125 inch diameter table with multiple attachment points and up to 25 pounds force capability. The 0.75 inch stroke of the ET-126B, usually available only in larger shakers, facilitates modal testing of resonant structures. These features ease fixture requirements in production and unique test applications.

The rugged, damped dual flexure armature suspension system offers high axial compliance and lateral stiffness. This design allows testing of unsupported loads with minimal suspension related noise problems.

- 25 POUNDS PEAK SINE FORCE
- 0.75 INCH STROKE
- 2.125 INCH DIAMETER TABLE
- 125g ACCELERATION, BARE TABLE
- TRUNNION BASE
ET-126B SPECIFICATIONS

PERFORMANCE

Sine force
  Natural cooling 13 lbf pk
  With blower 25 lbf pk
  Random force
    Natural cooling 8 lbf rms
    With blower 17.5 lbf rms
  Shock force 53 lbf pk, 50 msec
  Max displacement
    Continuous pk-pk 0.75 in
    Between stops 0.75 in
    Maximum velocity 120 ips pk
  Acceleration 1,2
    Bare table 125 g pk
    0.5 lb load 36 g pk
    2 lb load 11 g pk
  Maximum acceleration
    Resonant 150 g pk
    Peak shock 175 g pk

PHYSICAL

Armature weight 0.2 lb
Suspension stiffness 15 lb/in
Rated armature current
  Natural cooling 9 A rms
  With blower 17 A rms
Frequency range 2 DC-8,500 Hz
Fundamental resonance 2 6,000-8,000 Hz
Stray magnetic field
  Measured 1.0" above table <15 gauss
  Measured 0.5" from body <15 gauss
Cooling 80 CFM @ 22 inch H₂O
Dimensions 6.5" H x 4.8" W x 4.25" D
Shaker weight 11 lbs

OPTIONS

Cooling blower: Required for operation above 13 lbf. pk.
  Recommended for continuous operation above 10 lbf. pk.
Vibration isolation mounts.
Modal stinger kit.

1 Please see systems ratings for additional specifications.
2 Load dependent.
Specifications subject to change. Consult factory for latest specifications.