MODAL 250A Technical Specifications (Flexures for Armature Guidance)

- **Force Output with Forced Air cooling**: 1,000N pk sine excitation (225 lbf); 650N RMS random (145 lbf)
- **Force Output with Ambient Air cooling**: 550N pk sine excitation (125 lbf); 325N RMS random (75 lbf)
- **Stroke**: 50mm peak-to-peak (2 in.)
- **Velocity**: 1.4m/s peak (55 inches/second)
- **Acceleration**: 80 g pk continuous sine
- **Frequency Range**: DC - 4000Hz
- **Moving Element Weight**: Less than 1.4kg (3.0 lbs.)
- **Moving Element Axial Resonance**: Approximately 2,000 Hz
- **Exciter Weight, incl. Trunnion Base**: 25 pounds/inch (4.4 N/mm)
- **Driven-Axis Stiffness**: 115kg (250 pounds)
- **Stinger**: ¼” diameter rod x 400mm long with 10-32 & ¼-28 threads on ends
- **Stinger Attachment**: Chuck attached to shaker armature
- **Shaker Attachments**: Floor mount with trunnion base; suspension mount with multiple turnbuckles
- **Dimensions**: 457mm X 355mm Footprint X 436mm High (18” X 14” X 17 3/16”)
- **Drive Cable Length**: 10m (32 ft.); up to 50m (160 ft.) optional
- **Accessory Kit (optional)**: Turnbuckles, wrenches, ¼” stinger rods x 400mm long (10-32 & ¼-28 load cell threads); bolt-on-masses for inertia with nuts, bolts
- **Cooling (optional)**: Optional portable unit; optional Quiet Enclosure < 60dBA
- **Force Sensor (optional)**: 2,225N (500 lbs.) tension & compress; 10 mV/lb (2248 mV/kN)