

### General Characteristics

- Operating Principle: Closed-loop servo, force balance
- Size and Mounting: Per BEI PSSD drawing 961870
- Weight: 0.3 lb (4.8 ounces), maximum
- Input Power:  $\pm 15 \pm 0.75$  Vdc at 500 milliwatts max.
- Electrical Connection: Per MIL-C-26482/G, Series 2
- Sealing: Moisture-exclusion seal

### Performance Characteristics

- Range:  $\pm 2$  g
- Scale Factor:  $3.75 \pm 0.01875$  VDC/g
- Scale Factor vs Temperature:  $< 0.01\%$ / °F, maximum
- Hysteresis: 0.02% of full range, maximum
- Nonlinearity: 0.02% of full range, maximum
- Static Null (zero offset): 0.0036 g, maximum
- Noise: 7.5 millivolts RMS to 100 Hz
- External Load: Calibrated with external 100K ohms  $\pm 0.1\%$  load (not supplied)
- Cross Coupling: 0.002 g per g cross axis, with full scale applied to sensitive axis
- Dynamic Characteristics:  $-45^\circ$  phase shift at 10 Hz, minimum and  $-90^\circ$  phase shift at 150 Hz, maximum
- Damping: Overshoot of 10% maximum at all temperatures
- Alignment:  $\pm 1/2^\circ$  Case to true-sensitive axis
- Self Test: Provision is included for external application of torquing current to torque at a scaling of  $750 \pm 5\%$   $\mu$ A/g
- MTBF: 20,000 hours, minimum

### Environmental Capability

- Operating Temperature:  $-65^\circ$  F to  $+160^\circ$  F
- Storage Temperature:  $-65^\circ$  F to  $+200^\circ$  F
- Vibration Endurance: 144,000,000 dither cycles,  $\pm 5\%$  of full scale, minimum
- Shock Endurance: 20 g, 11 milliseconds, any axis
- Acceleration Endurance: 50 g sustained, any axis
- Operating Vibration: MIL-E-5400, curve IV to 500 Hz

*Approved for general use.  
Specifications subject to change without notice.*