



Linear Servo Accelerometer

Developed for the Structural Data Recording Set, AN/ASH-37



This Servo Accelerometer is a closed-loop, force-balance transducer with much greater accuracy and stability than that of an open-loop type accelerometer.

Features a rugged acceleration sensor with direct current output signal proportional to acceleration.

PRODUCT FEATURES:

- Small in Size
- Range: -2g to +4g
- Measurement of Aircraft Linear Accelerations

SPECIFICATIONS:

- Weight: 3.0 oz. nominal
- Power: ± 15 VDC, 15mA
- Output Current: -3.52 mA at -2.0 G
+3.52 at 4.0 G
- Natural Frequency: 200 Hz minimum
- Damping: 0.8 ± 0.2 maximum
- Non-Linearity: 0.1%
- Hysteresis: 0.02%
- Resolution: 0.0005% F.S.
- Case Alignment: better than $\pm 0.25^\circ$
- Noise: 2 μ A RMS
- Scale Factor TC: 0.02% / $^\circ$ C maximum
- Bias TC: 0.0006% F.R./ $^\circ$ C
- Bias: $\pm 0.05\%$ F.R.
- Operating Temp.: -55 $^\circ$ C to +90 $^\circ$ C
- Storage Temp.: -60 $^\circ$ C to +100 $^\circ$ C
- Vibration Survival: 20G RMS, 1.0" DISP
(2 to 2000 Hz)
- Shock: 250G, 5 mS

