

Systems & Electronics Inc.



2.600 2,300 2,000 1.100 0.86 (30°) 4X ∠0.140ø 2X / 0.300 0.150 BENDIX CONNECTOR PT1H-10-6P OR **EQUIVALENT** 0.50 -Θ 0.30 1.705 MAX. 1.225 SENSITIVE AXIS 0.010 0.187

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 ±0.25°

Noise: 2 uA RMS

Scale Factor TC: 0.02% / C maximum

Bias TC: 0.0006% F.R./°C

Bias: ±0.05% F.R.

Operating Temp.: -55°C to +90°C

Storage Temp.: -60°C to +100°C

Vibration Survival: 20G RMS, 1.0" DISP

(2 to 2000 Hz)

Shock: 250G, 5 mS

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