aselsan

ADG-210

ASELSAN DIRECTIONAL GYRO

ROLL, PITCH and YAW
ANGLE OUTPUTS

BORESIGHT
INTERFACE

USER and TEST
SERIAL INTERFACES

TESTED TO
MIL-STD-810G and MIL-STD-461F

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ADG-210

ASELSAN DIRECTIONAL GYRO

ADG-210 is an attitude determination system for various platforms. ADG-210 provides attitude, angular velocity and linear acceleration to the host vehicle systems continuously.

ADG-210 consists of strap down inertial measurement unit, system processor unit, power supply unit and chassis.

ADG-210 is a cost effective solution for all types of platforms requiring attitude during their mission.

ADG-210 is an open architecture and hardware/ software flexible unit which can be adapted to various platforms.

Long mean time between failure (MTBF) and internal built in test capability reduces the logistics requirement to a minimum. ADG-210 does not require periodic maintenance.

Technical Specifications

- Roll, Pitch And Yaw Angle Outputs
- Angular Rate Output
- Linear Acceleration Output
- Low Power Dissipation (12 W, 28 VDC)
- Built-In Test Capability
- Boresight Interface
- Field Programmable Software
- No Periodic Maintenance

System Operational Modes

- Continuous Output Mode
- Polled Output Mode

System Interfaces

- MIL-STD-704F Electrical Power Interface
- RS422 Serial User Interface
- High Speed RS422 Asynchronous Serial Test Interface

Parameter	Performance Specifications
Yaw Angle (long term period)	20 deg / hour
Yaw Angle (short term period)	0.5 deg
Roll and Pitch Angle (long term period)	1 deg
Roll and Pitch Angle (short term period)	0.5 deg
Angular Rate (x, y, z)	0.25 deg / sec
Accelerometer Bias (x, y, z)	24 mg

Start-Up Time

- 10 sec

Environmental Conditions

- MIL-STD-810G

Electromagnetic Environmental Effects

- MIL-STD-461F

Physical Specifications

- Dimensions : 152 mm (H) x 127 (D) x 109 mm (W) (without connector)
- Weight : < 2 kg

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