



## IMU15™ MEMS INERTIAL MEASUREMENT UNIT (IMU)

# COMPACT SIZE, PROVEN PERFORMANCE

### Incorporating proven, precision, micro electro-mechanical systems (MEMS), gyroscopes and accelerometers

The Collins Aerospace IMU15™ MEMS inertial measurement unit (IMU) is a compact six-degree-of-freedom inertial measurement unit providing precise three-axis outputs of angular rate, acceleration and temperature. Our product has been designed specifically to meet the growing demand from high-end commercial and industrial market applications for an industrial grade non-licensable IMU.

In line with our constant drive for innovation, IMU15 incorporates the latest technology in a very small package, while retaining best-in-class performance and reliability. Our unique pedigree and world-class expertise has enabled an industrial grade IMU under 1 cubic inch in volume.

IMU15 uses our world-class MEMS inertial sensors, integrated and calibrated using our in-house, state-of-the-art test facility.

Collins Aerospace has a long and respected heritage in the design and development of inertial sensors.



### KEY FEATURES

- Small form factor ruggedised 6 DOF MEMS inertial measurement unit
- Bias instability and random walk angular: 15 °/hr, 3 °/√hr linear: 1.5 mg, 1m/s/√hr
- Non-ITAR
- Non-licensable
- Compact and lightweight – 32.0 x 34.0 x 42.0 H (mm), 70 grams
- Internal power conditioning to accept 4.75 V to 5.25 V input voltage
- RS422/RS485 interfaces
- -40° C to 72° C operating temperature range
- RoHS compliant
- In-house manufacture from MEMS fabrication to IMU calibration



