

RGA-20 HIGH PERFORMANCE GYRO ASSEMBLY

MAKING AFFORDABLE SPACE TECHNOLOGY A REALITY



A FULL SPECTRUM OF COMPONENTS AND SYSTEMS TO MEET YOUR HIGH PERFORMANCE SATELLITE NEEDS

L-3 Space & Navigation (L-3 S&N) manufactures the most accurate gyros in the world and provides a single source for guidance and control products and systems. Our major sensor products are:

- Fiber Optic Gyros (FOGs)
- Ring Laser Gyros (RLGs)
- Mechanical Gyros
- Star Sensors

L-3 S&N produces a highly accurate RLG Assembly selected for use on multiple remote and other sensing satellite programs including: Space Imaging, Quick-Scat, IceSat, FUSE, and the Multispectral Thermal Imager (MTI).



Space & Navigation

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FEATURES, CAPABILITIES & TECHNICAL DATA

• PERFORMANCE

- Input Angular Rate $\pm 20^\circ/\text{sec}$
- Bias Stability $0.005^\circ/\text{hr}$ to $0.01^\circ/\text{hr}$
- Random Walk $0.0025^\circ/\sqrt{\text{h}}$ to $0.004^\circ/\sqrt{\text{h}}$
- Scale Factor Repeatability < 4 ppm
- Bandwidth 24 Hz filter (bypassable)

• POWER

- Consumption < 25 Watts
- Input Power $+ 28$ Volts ± 6 Volts

• WEIGHT

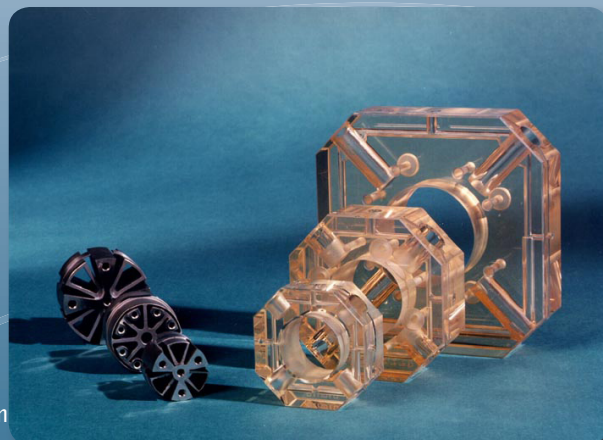
5.67 kg

• SIZE

158 mm x 242 mm x 204 mm

• INTERFACE

- RS-422
- Output Gyro Rate 400 Hz
- Gyro Mount Temperature Unconditioned output temperature via AD 590 temperature sensor
- Built-In-Test Capability Test provisions to command a positive or negative rate over the entire rate range. Useful for systems integration to validate ACS scale factor & phasing.



FOR MORE INFORMATION PLEASE CONTACT:

Glenn Barone
Senior Director, Business Development
Tel: 973.446.4084
glenn.barone@l-3com.com

Space & Navigation

450 Clark Dr
Budd Lake, NJ 07828
Tel: 973.446.4000
Fax: 973.446.4268
www.L-3Com.com/Spacena



L-3. Leading. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems. The company reported 2007 sales of \$14 billion.