

LASER GYROS FOR NAVIGATION SYSTEMS

PURPOSE: measurer of base angular rate vector projection on laser gyro sensitivity axis.

FEATURES:

Laser gyros with 3 different values of perimeter length. Monoblock structure, ring laser on a dither stand in electromagnetic screen.

SCOPE OF APPLICATION:

Laser gyros are used in strapdown inertial navigation systems.

TECHNICAL SPECIFICATIONS:



Model (perimeter length, cm):	RL-28 (perimeter - 28 cm)	RL-16 (perimeter - 16 cm)	RL-08 (perimeter - 8 cm)
Bias stability error, deg/hour	0.005...0.01	0.02...0.05	0.3...0.7
Angular random walk, deg/$\sqrt{\text{hour}}$	0.001...0.003	0.006...0.02	0.03...0.08
Scale factor stability error	10 ppm	20 ppm	100 ppm
Angular rate range, deg/s	± 400	± 600	± 1000
Operating temperature range, °C	-40 ... +65	-40 ... +65	-40 ... +65