

ALCYON

ÉLECTRONIQUE

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G150Z GYROSCOPE

Low Noise Analog MEMS Gyro



The G150Z Single Axis Gyro is a compact, low noise, analog MEMS gyroscope. This small, environmentally sealed gyro is rated for 500g shock and 6g RMS vibration. It is available in three rate ranges, 100°/s, 175°/s and 300°/s. It is ideal for stabilization, flight control, high-speed train monitoring, and automotive testing.



Low Noise: 0.001°/s/√Hz



Excellent Bias Stability: 1.2°/h



Analog Output



Factory Calibrated: -40°C to 85°C



NON-ITAR

Low Noise. High Performance.



GLADIATOR

TECHNOLOGIES

G150Z GYROSCOPE

Performance (Available in any of the following rate ranges)

Parameter	Gyro		
Range	±100°/s	±175°/s	±300°/s
ARW / VRW	0.001°/s/√Hz	0.0018°/s/√Hz	0.0022°/s/√Hz
Bias In-Run	< 0.05°/s	< 0.1°/s	< 0.15°/s
Bias Over Temp.	< 0.1°/s	0.2°/s	0.3°/s
Resolution	0.0005°/s	0.0009°/s	0.001°/s
G Sensitivity	0.01°/s/g	0.015°/s/g	0.02°/s/g
Scale Factor Error	≤ 0.5% (over temperature)		
Alignment	< 4 mrad		

Environment

Shock	500 g ½ sine 1 ms powered on
Vibration	6 g _{RMS} (20 Hz to 2 kHz)
Operating Temp	-40°C to +85°C
Non-Operating Temp	-55°C to +100°C

Interface

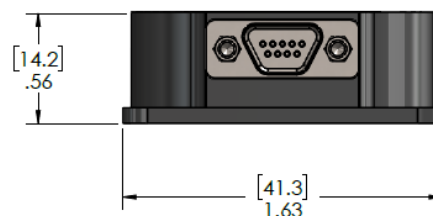
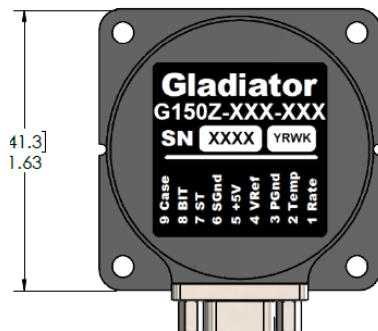
Data Format/Interface	Analog
Temperature Sensor	2.5V ±0.05V DC Nom at 20°C
Start Up Time	< 0.25 s
Self Test	Built In
Bandwidth	200 Hz

Electrical

Input Voltage	+5 VDC ±5%
Input Current	20-25 mA

Mechanical

Mass	28 grams
Size	Metric: 4.13 dia x 1.42 = 19.01 cm ³ US: 1.63 dia x 0.56 = 1.16 in ³



www.gladiatortechnologies.com/g150z

All performance parameters 1σ
Specification subject to change without notice

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