



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	$\pm 100^\circ/s$	$\pm 175^\circ/s$	$\pm 300^\circ/s$
ARW / VRW	$0.001^\circ/s/\sqrt{Hz}$	$0.0018^\circ/s/\sqrt{Hz}$	$0.0022^\circ/s/\sqrt{Hz}$
Bias In-Run	$< 0.05^\circ/s$	$< 0.1^\circ/s$	$< 0.15^\circ/s$
Bias Over Temp.	$< 0.1^\circ/s$	$0.2^\circ/s$	$0.3^\circ/s$
Resolution	$0.0005^\circ/s$	$0.0009^\circ/s$	$0.001^\circ/s$
G Sensitivity	$0.01^\circ/s/g$	$0.015^\circ/s/g$	$0.02^\circ/s/g$
Scale Factor Error	$\leq 0.5\%$ (over temperature)		
Alignment	< 4 mrad		

Environment

Shock	500 g $\frac{1}{2}$ 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

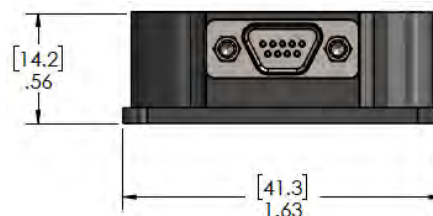
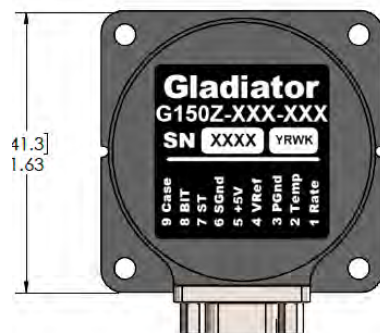
Data Format/Interface	Analog
Temperature Sensor	2.5V $\pm 0.05V$ DC Nom at 20°C
Start Up Time	< 0.25 s
Self Test	Built In
Bandwidth	200 Hz

Electrical

Input Voltage	+5 VDC $\pm 5\%$
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



DSPM Industria*
sensori & trasduttori

All performance parameters 1 σ
Specification subject to change without notice
Rev. 03.14.19

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