

Ihr Ansprechpartner in
Deutschland, Österreich
und der Schweiz

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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. 

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	$0.001^\circ /s/\sqrt{Hz}$	$0.0018^\circ /s/\sqrt{Hz}$	$0.0022^\circ /s/\sqrt{Hz}$
BiasIn-Run	$<0.05^\circ /s$	$<0.1^\circ /s$	$<0.15^\circ /s$
BiasOverTemp.	$<0.1^\circ /s$	$0.2^\circ /s$	$0.3^\circ /s$
Resolution	$0.0005^\circ /s$	$0.0009^\circ /s$	$0.001^\circ /s$
GSensitivity	$0.01^\circ /s/g$	$0.015^\circ /s/g$	$0.02^\circ /s/g$
ScaleFactorError	$\leq 0.5\%$ (overtemperature)		
Alignment	$<4\text{mrad}$		

Environment

Shock	500g $\frac{1}{2}$ sine 1ms powered on
Vibration	6gRMS(20Hz to 2kHz)
OperatingTemp	-40° C to +85° C
Non-OperatingTemp	-55° C to +100° C

Interface

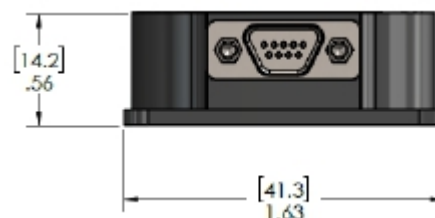
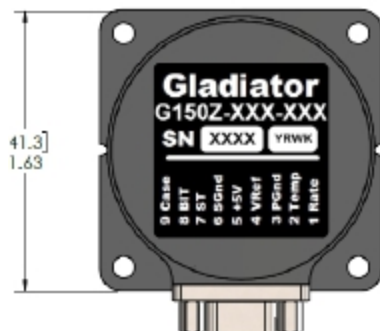
DataFormat/Interface	Analog
TemperatureSensor	2.5V \pm 0.05VDC Nomat 20° C
StartUpTime	$<0.25\text{s}$
SelfTest	BuiltIn
Bandwidth	200Hz

Electrical

InputVoltage	+5VDC \pm 5%
InputCurrent	20-25mA

Mechanical

Mass	28grams
Size	33 Metric: 4.13dia x 1.42=19.01cm US: 1.63dia x 0.56=1.16in



www.gladiatortechnologies.com/g150z

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



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