



GA100

Single-Axis Accelerometer



The high-performance GA100 accelerometer operates in a closed-loop feedback mode, where a rebalance force is applied on the proof mass to offset the inertial force caused by external acceleration. The proprietary design architecture creates exceptional bias stability, scale factor linearity, and reduced vibration rectification error.

± 15 g
Sensor
Range

250 μ g
Long Term Bias
Repeatability

7/60 μ g
Short Term
Stability

400 ppm
Long Term
Scale Factor

20 μ g/vHz
VRW

25 μ g/g²rms
Vibe Rectification

MISSION PROVEN
Inertial Sensors and Systems



GA100 Accelerometer

Preliminary Performance

	GA100-015-100A	GA100-015-100B	GA100-015-100C	GA100-015-100D
Range	±15 g	±15 g	±15 g	±15 g
Long Term Repeatability	2 mg	1 mg	500 µg	250 µg
Short Term Stability*	20/200 µg	14/150 µg	14/100 µg	7/60 µg
VRW	40 µg/VHz	25 µg/VHz	25 µg/VHz	20 µg/VHz
Temperature Sensitivity	400 µg/°C	300 µg/°C	200 µg/°C	150 µg/°C
Temp Residual Error	350 µg	200 µg	200 µg	150 µg
Turn On to Turn On Repeatability*	250 µg	100 µg	50 µg	50µg
Long Term Scale Factor	700 ppm	600 ppm	500 ppm	400 ppm
Scale Factor Stability (Short)	150 ppm	150 ppm	100 ppm	100 ppm
Bandwidth	>300Hz	>300Hz	>300Hz	>300Hz
Vibration Rectification	40 µg/ g ² rms	25 µg/ g ² rms	25 µg/ g ² rms	25 µg/ g ² rms
US Export Classification	7A994	7A994	7A994	7A994

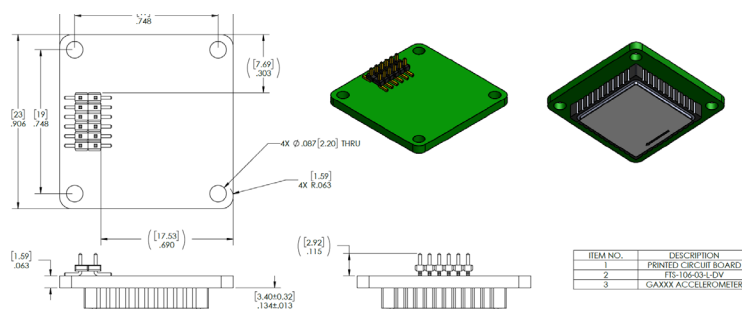
Environment

Shock (Operating / High)	40g 11msec / 500g 1msec, 1/2 sine
Vibration (Operating)	12 gRMS (20 Hz to 2 kHz)
Calibrated Temp	-55°C to 95°C
Non-Operating Temp	-55°C to 100°C

Electrical / Mechanical

Input Voltage	+5.0 V ±0.25 V Input (single sided)
Power Consumption	50 mA
Data Interface	SPI
Mass	<7 grams
Size	23 x 23 x 7.9 mm

*At room temperature
All performance parameters typical
Specification subject
to change without notice
Rev. 25.09.26



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