A40 MEMS ACCELEROMETER

- **Low Cost & High Performance MEMS Single Axis Accelerometer**
- **Wide G Range Options** *6g to 15g*
- **Low Noise** *0.065mg/√Hz for 6g*
- **Excellent Bias** *≤ 0.7mg for 6g 2σ*
- **Bias Repeatability** *1.5mg for 6g*
- **Axis Alignment** *< 5mrad 1σ*
- **Low Power** *< 10 mA Typical*
- **Light Weight** *< 15 grams*
- **Low Voltage** *+5V (single sided power)*
- **Bandwidth** *140Hz (-3db point)*
  (450 Hz option – consult factory)
- **Voltage Output** *0 ± 4.5V*
- **Reference Voltage** *2.5V*
- **Rugged EMI Resistant Packaging**
- **Internal Temperature Sensor**
- **Self Test**
- **Shock Resistant** *500g*
- **Vibration** *6gRMS (10g+ unit)*
- **Long Life**

Low Noise, Excellent Bias, Light Weight and Low Power

Export Classification: Commerce ECCN7A994

The all new A40 MEMS High Performance Single Axis Accelerometer offers both low noise and excellent bias with a small light weight form factor and low power. Designed for commercial marine, train and aircraft applications that require high performance, the unit utilizes standard +5V DC power and the voltage output is non-ratiometric to power. The signature features of the A40 are our low noise, impressive bias over temperature performance, low power consumption, light weight and easy pinout interface. The unit is highly durable and can withstand environmental vibration and shock typically associated with commercial aircraft requirements. The unit has no inherent wear-out modes for long life. In addition, the A40 has a rugged black anodized case for environmental sealing. The A40 MEMS Accel offers standard g ranges ±6g ±10g and ±15g . The A40 is designed for seismic monitoring, train motion monitoring, automotive crash testing, commercial marine motion monitoring systems, platform motion monitoring systems, general aviation as well as laboratory use where low noise, excellent bias, small form factor and rugged durability at low cost are required.
Thermal model available - consult factory.

Gladiator Technologies
High Performance Inertial MEMS

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