DC-4E/GECD-6E/AHRS-8 -- Application Note 1010E
Through-Hole Mounting and Pin Tolerances

Introduction
This application note describes the recommended through-hole mounting pattern and pin tolerances for DC-4E/GECD-6E/AHRS-8 inertial sensors.

Background
When undue stress is induced in the DC-4E/GECD-6E/AHRS-8 inertial sensors, compass performance may deviate from expectations. This undue stress can often be introduced by misaligned or undersized through-hole vias used to mount a DC-4E/GECD-6E/AHRS-8 inertial sensor. Ensuring that mating PCB hole patterns have adequate tolerance will avoid these issues and provide the best performance from the part. Adequate tolerancing will not only alleviate stress concerns in the DC-4E/GECD-6E/AHRS-8 inertial sensors, but also increase ease of installation.

DC-4E/GECD-6E/AHRS-8 Pin Dimensions
Due to limits in manufacturing, no product can consist of perfectly identical exact dimensions. The dimensions and tolerances shown below represent the possible range of pin dimensionality that may be received.
DC-4E/GE DC-6E/AHRS-8 Mounting Recommendations

Below is the recommended mounting hole pattern and size for the DC-4E/GE DC-6E/AHRS-8 inertial sensors. The north arrow indicates which direction the compass will point with the given mounting hole orientation. The dimensioned rectangle is the recommended keep out area. The top of the mating PCB is a required keep out area, since the part will occupy the space. It is recommended that the bottom of the mating board also adhere to this keep out area.

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