

Quick Installation Guide Hitachi 3K8 Microdrive

Embedded Type PATA

Models:

HMS361008M5CE00

HMS361006M5CE00

HMS361004M5CE00

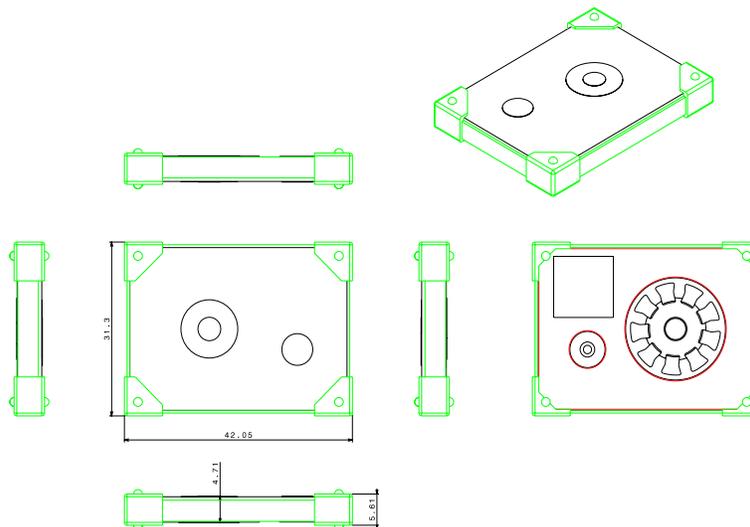


Handling precautions

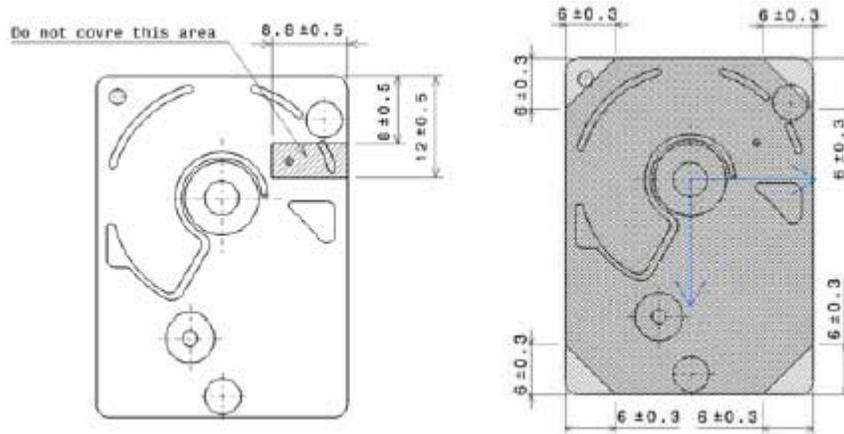
- Do not seal the breather hole! Sealing the breather hole may result in loss of data.
- Do not press on the drive! Do not apply any force to the drive during handling or installation.
- Always handle the drive with care to prevent damage from shock, vibration, or electrostatic discharge (ESD).
- Handle the drive carefully by the edges. Do not touch any exposed printed circuit board.
- Do not write on the label or remove it. Do not apply additional labels.
- Do not drop the drive.
- Do not expose the drive to wet conditions.
- Do not place the drive near a strong magnetic field.
- Do not expose the drive to extreme temperatures.

Mounting Recommendations

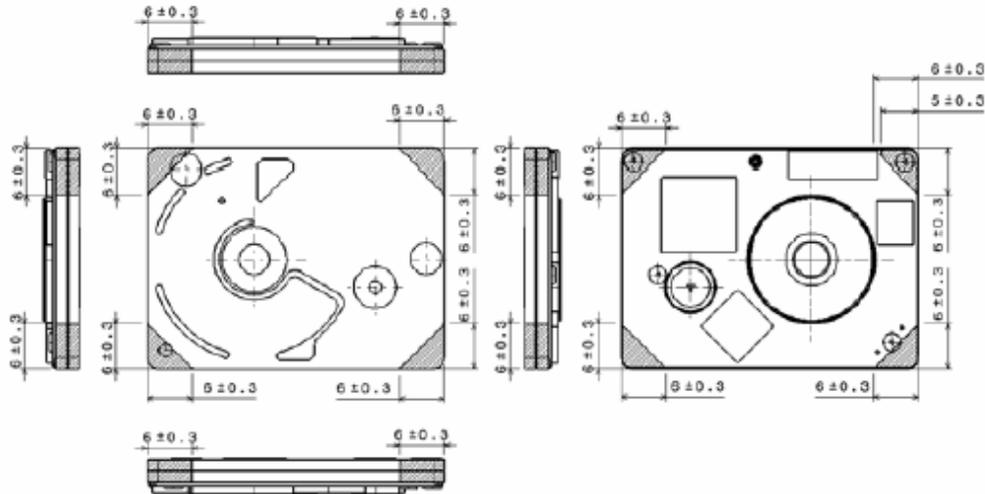
There are no screw holes or guide rails in the Microdrive 3K8 hard disk drive. Hitachi recommends you secure the drive by placing it in a frame with snubbers as shown in the diagram below. Hitachi GST will assist customers with mounting design.



- To permit airflow, a 0.5mm gap on top and bottom should exist after device holding drive is assembled.
- Give FPC (Flexible Printed Circuit) cable enough length to avoid excessive tension under shock condition.
- Snubbers are available from 3rd parties such as EAR (www.earsc.com). Material should not produce any outgassing such as siloxane found in organic silicone oil.
- Do not cover breather hole



Mechanical Dimensions

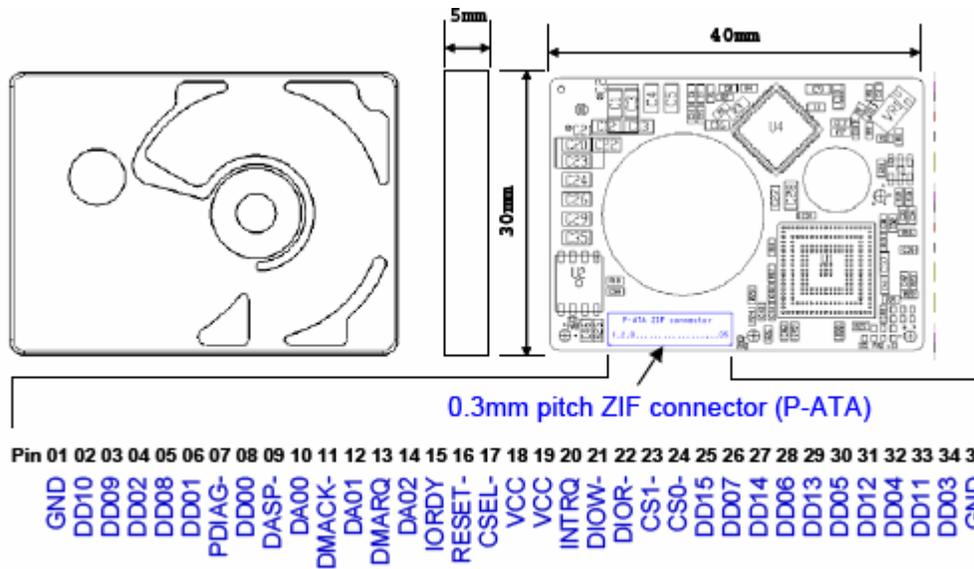


Mounting force is 7.4N MAX at each area.

After mounting there is no twist and bending force act the device.

Connector Information

- Connector is 35 pin ZIF (SMT horizontal mount, gold plate) Hirose FH26 - 35S - 0.3SHW(05) (http://www.hirose-connectors.com/products/FH26_1.htm)
- FPC 10.8 ± 0.05mm width, 0.2 ± 0.03mm thickness
- Maximum Length is 75mm
- Single sided FPC is recommended
- Follow Connector vendor recommendations on FPC design.
- Connector Pinout



Electrical Information

- Power Supply to be 3.3V +5% - 15%, 70mV max ripple, 400mA capable
- Interface Signal Levels
 - Input High Voltage 2.0 min
 - Input Low Voltage 0.8 max
 - Output High Voltage 2.4 max
 - Output Low Voltage 0.5 min

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