

- **MHW2040AT FUNCTIONAL SPECIFICATIONS**

- Formatted storage capacity 40 GB
- Bytes per sector 512 bytes
- Seek time (track to track) 1.5 typ. ms. typ.
- Seek time (average) 12 typ. (Read), 14 typ. (write) ms. typ. (read/write)
- Seek time (full track) 22 typ. ms. typ. (read/write)
- Average latency time 17.4 ms.
- Rotational speed 4,200 RPM
- Interface ATA - 7
- Data Buffer Size 8 MB
- Data transfer rate (DMA mode 2) 100 MB per second
- PHYSICAL SPECIFICATIONS
- Power requirement Voltage 5V \pm 5%
- Spin-Up 0.9 A max
- Power requirement Read/write 1.6 W typ.
- Power requirement Idle (ready) 0.5 W typ.
- Power requirement Sleep 0.1 W typ.
- Form Factor 2.5-inch x 9.5mm
- Height 9.5 mm (0.37 in)
- Width 70 mm (2.8 in)
- Depth 100 mm (3.9 in)
- Weight 101 g (3.53 oz) or less
- Ambient temperature (operating) 5 to 55 degrees C
- Ambient temperature (non-operating) -40 to 65 degrees C
- Maximum DE surface temperature (operating) 60 deg. C
- Gradient 20 degrees C per hour
- Relative humidity (operating) 8 to 90 % RH (non-condensing)
- Relative humidity (non-operating) 5 to 95 % RH (non-condensing)
- Maximum wet bulb 29 (Op.)/ 40 (Non Op.) degrees C (non-condensing)
- Vibration (operating) 9.8m/s² (1.0G) (5 to 500Hz)
- Vibration (non-operating) 49m/s² (5.0G) (5 to 500Hz)
- Shock (operating) 2,205m/s² (300G) 2ms
- Shock (non-operating) 8,820m/s² (900G) 1ms / 1,176m/s² (120G) 11ms
- Altitude (operating) -300 to 3,000 metres
- Altitude (non-operating) -300 to 12,000 metres
- Acoustic noise (at 1 metre idle) 28 dBA typical
- Acoustic noise (at 1 metre idle) 2.6 bels
- RELIABILITY
- MTBF (Mean Time Between Failures) More than 300,000 power on hours
- ROHS Compliant Yes