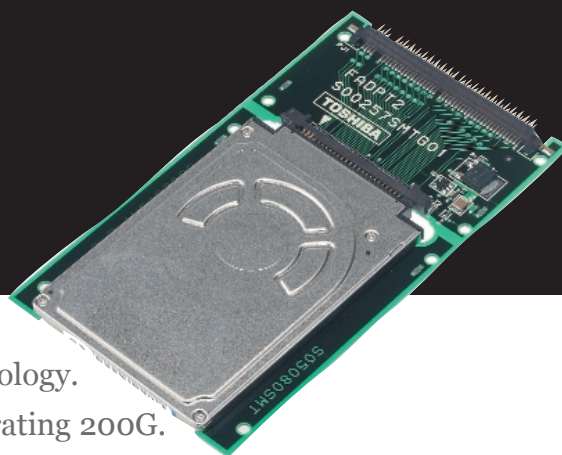


TOSHIBA

Information Sheet

MK5002MAL - 5GB
 MK1002GAH - 10GB
 1.8 inch ATA embedded
 Hard Disk Drive



The Benefits Include: Ramp Load Technology.

Shock Tolerance. Operating 200G.

Non-operating 1000G. 300,000 Hours MTF. Low Power Consumption. ATA 5

SPECIFICATIONS & CHARACTERISTICS

Functional Specifications

MK 1002 GAH MK 5002 MAL

Data Storage Capacity:

Per Drive, Formatted	10.014 GB	5.007 GB
Number of Platters	2	1
Number of Heads	4	2
Bytes / Sector	512	512
Rotational Speed (rpm)	4,200 ±0.1%	4,200 ±0.1%

Data Transfer Rate:

Ultra DMA mode	66.7 MB/sec	66.7 MB/sec
PIO mode	16.6 MB/sec	16.6 MB/sec

Average Seek Time:

Track-to-Track	3 msec	3 msec
Average	15 msec	15 msec
Maximum	26 msec	26 msec
Average Latency	7.14 msec	7.14 msec

Interface:

Type	ATA-2 / 3 / 4 / 5	ATA-2 / 3 / 4 / 5
Buffer memory (KB)	1024	1024

Nominal Power Requirements:

Voltage (V); Supply for Logic	3.3V ±5%	3.3V±5%
Supply for Motor	3.3V ±5%	3.3V ±5%
Sleep (Watts)	0.05	0.05
Standby (Watts)	0.23	0.23
Reading/Writing (Watts)	1.3	1.3
Seeking (Watts)	1.3	1.3

Physical & Environmental Specifications

Dimensions -mm:

Height	8	5
Width	54.0 ±0.2	54.0 ±0.2
Depth	78.5 ±0.3	78.5 ±0.3
Weight	60 g	50 g

Ambient Temperature °C:

Operating	5°~60°	5°~60°
Non-Operating	-20°~65°	-20°~65°

Vibration and Shock:

Operating	9.8 m/s ² (1.0G)	9.8 m/s ² (1.0G)
	Vibration	Vibration
	1960 m/s ² (200G)	1960 m/s ² (200G)
Non-Operating	Shock	Shock
	49 m/s ² (5.0G)	49 m/s ² (5.0G)
	Vibration	Vibration
Acoustic Noise	9800 m/s ² (1000G)	9800 m/s ² (1000G)
	Shock	Shock
	22 dBA (idle)	22 dBA (idle)

Reliability Characteristics

MTTF	300,000 hours	300,000 hours
PM	None	None

Error Rates:

Unrecoverable	1 in 10 ¹³ bits	1 in 10 ¹³ bits
Seek	1 in 10 ⁶ bits	1 in 10 ⁶ bits
Read Head Type	GMR Head	GMR Head

Specifications are subject to change without notice.

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TOSHIBA

For all your data storage needs...

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Hard Disk Drive

Toshiba Storage Device Division leads the market in the development, design and manufacturing of DVD-RAM, DVD-ROM, CD-RW drives and PC Card & mobile hard disk drives. SDD markets high-quality peripherals to original equipment manufacturers, value-added resellers, value-added dealers, systems integrators and distributors in Europe. Inherent in the company's product line is high-quality engineering and manufacturing which has established Toshiba products as worldwide leaders.

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