TOSHIBA
Leading Innovation

Brief Specification
Mobile HDD (1.8-type)

MK8025GAL

ITEM	MK8025GAL
Basic specification	
Interface	ATA-3 / ATA-4 / ATA-5 / ATA-6 / ATA-7
Interface speed	100MB/s
Formatted Capacity	80GB
Number of data heads	2
Number of disks	1
Number of User data cylinders	88,920
Bytes per sector (HOST)	512
Bytes per sector (DISK)	512
Logical Blocks (LBA)	156,301,488
Maximum areal density	379.1Mbit/mm^2 (244.6Gbit/in^2)
Environmental compliance	RoHS compliant
Performance	
Buffer size	8MB
Rotation speed	4,200rpm
Average Latency time	7.14 ms
Internal transfer rate	213.9 to 463.3 Mb/s (typ.)
Average seek time	15ms
Track to track seek time	3ms
Max. seek time	26ms
Reliability	
Load/Unload	600,000 times
Error rate non-recoverable	1/10^{13} bit read
Supply Voltage	
Allowable Voltage	3.3 V ±5%
Power consumption	
Start	1.8W (max.)
Seek	1.1W (typ.)
Read/Write	1.0W (typ.)
Low power Idle	0.3W (typ.)
Stand-by	0.12W (typ.)
Sleep	0.07W (typ.)
Energy Consumption Efficiency /Category name	0.00375 g
Dimension	
Height	5.0mm
Width	54.0mm
Depth	71mm
Weight	45g (max.)
Temperature	
Operating	5 to 60°C
Non-Operating	-20 to 65°C
Shipping	-40 to 70°C
Vibration/Shock	
Vibration (op)	19.6m/s^2 (2.0G)
Vibration (non-op)	49m/s^2 (5.0G)
Shock (op)	4,900m/s^2 (500G) (2ms half sine)
Shock (non-op)	14,700m/s^2 (1500G) (1ms half sine)
Acoustics	
Idle (ave.)	14dB
Seek (ave.)	20dB

*Energy Consumption Efficiency: Energy consumption efficiency is calculated based on power consumption divided by formatted capacity, as defined by Japanese law.

*Energy Consumption Efficiency Category name is based on the Standards of Judgment for Factories etc. on the Low Concerning the Rational Use of Energy in Japan, as of FY2007.

*Definition of Capacity: TOSHIBA defines a megabyte(MB) as 1,000,000bytes, and a gigabyte(GB) as 1,000,000,000 bytes.