

# OCZ Vertex 2 Series SATA II 2.5" SSD

## Design and Technology:

Based on a cutting-edge new architecture, Vertex 2 Solid State Drives deliver unprecedented performance while maintaining an affordable storage solution for early adopters looking to update their systems with the latest technology. OCZ designed the Vertex 2 to excel in both sequential and random read/write rates to take your PC or notebook productivity to the next level, featuring superb 4k random writes up to 50,000 IOPS to give a performance edge over the previous generation. Using the latest controller technology, Vertex 2 not only provides a faster, more responsive PC experience, but promotes cooler, quieter, and more energy efficient conditions compared to traditional mechanical hard drives.

With solid performance coupled with supreme reliability, the Vertex 2 is designed to push the envelope in storage technology for those who place a premium on speed, reliability and efficiency, but demand the affordability of MLC flash memory. Built with SATA 3Gb/s, the Vertex 2 Series easily integrates into today's mobile and desktop platforms and features TRIM support to optimize performance over the drive's lifespan as the ultimate Windows 7 notebook or desktop upgrade.

## Applications:

- Workstation PCs
- Desktop PCs
- Notebook PCs



## Part Numbers

- OCZSSD2-2VTX40G
- OCZSSD2-2VTX50G
- OCZSSD2-2VTXE60G
- OCZSSD2-2VTXE90G
- OCZSSD2-2VTX100G
- OCZSSD2-2VTXE120G
- OCZSSD2-2VTXE180G
- OCZSSD2-2VTX200G
- OCZSSD2-2VTXE240G
- OCZSSD2-2VTX400G
- OCZSSD2-2VTXE480G

## Physical Specifications

<b>Capacity:</b>	40GB to 480GB
<b>NAND Flash Components:</b>	Multi-Level Cell (MLC) NAND Flash Memory
<b>Interface:</b>	SATA II / 3Gbps
<b>Form Factor:</b>	2.5" slim design form factor
<b>Physical Dimensions:</b>	99.8 (L) x 69.63 (W) x 9.3mm (H)

## Reliability Specifications

<b>Life Expectancy:</b>	2 million hours Mean Time Between Failure (MTBF)
<b>Reliability:</b>	ECC: 27 bytes of redundancy per 512 bytes data. Up to twelve 9-bit symbols correctable
<b>Product Health Monitoring:</b>	Self-Monitoring, Analysis and Reporting Technology

## Environmental Specifications

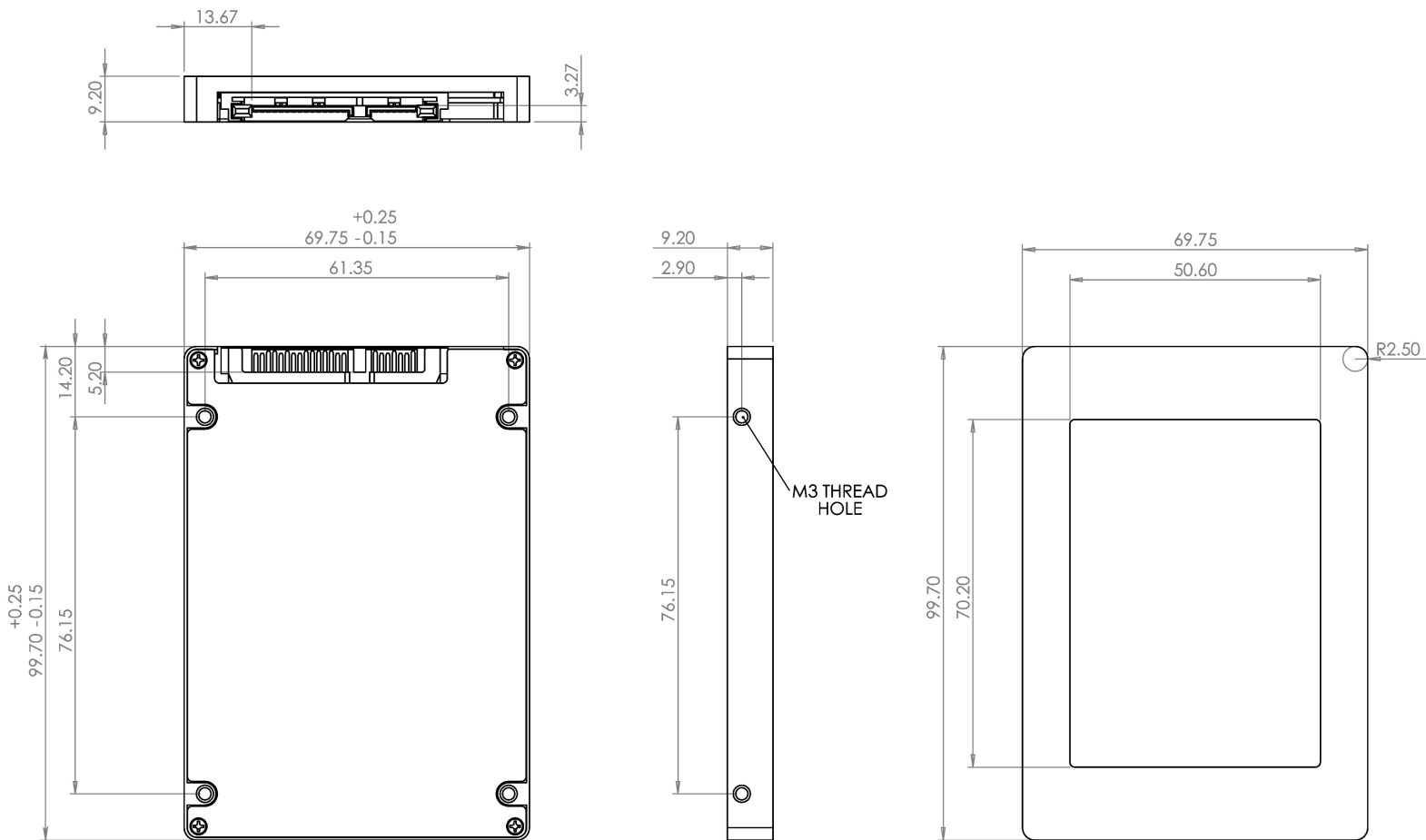
<b>Operating Temperature:</b>	0°C ~ +70°C
<b>Storage Temperature:</b>	-45°C ~ +85°C
<b>Shock Resistance:</b>	1500G
<b>Certifications:</b>	RoHS, CE, FCC

Performance	40GB	50GB-240GB	400GB-480GB
<b>Max Read:</b>	up to 280 MB/s	up to 285 MB/s	up to 250 MB/s
<b>Max Write:</b>	up to 270 MB/s	up to 275 MB/s	up to 240MB/s
<b>Sustained Write:</b>	up to 200 MB/s	up to 250 MB/s	up to 200 MB/s
<b>4KB Random Write (Aligned):</b>	45,000 IOPS	50,000 IOPS	22,500 IOPS
<b>Seek Time:</b>	0.1 ms	0.1 ms	0.1 ms
<b>Power Consumption:</b>	Idle: 0.5 Watts Active: 2 Watts	Idle: 0.5 Watts Active: 2 Watts	Idle: 0.5 Watts Active: 2 Watts
<b>Performance Optimization:</b>	TRIM (requires OS support)	TRIM (requires OS support)	TRIM (requires OS support)

## Compatibility

<b>SATA:</b>	Fully compliant with Serial ATA International Organization: Serial ATA Revision 2.6. Fully compliant with ATA/ATAPI-7 Standard Native Command Queuing (NCQ)
<b>OS Compatibility:</b>	Windows XP 32 Bit; Windows XP 64 Bit; Windows Vista 32 Bit; Windows Vista 64 Bit; Windows 7 32 Bit; Windows 7 64 Bit; Linux, Mac OSX
<b>Power Requirements:</b>	Standard SATA Power Connector

## Mechanical Specifications



### NOTE:

1. THIS DRAWING MUST BE USED TO IDENTIFY CRITICAL DIMENSIONS, TOLERANCES AND REFERENCE.
2. INTERPRET DIMENSION AND TOLERANCE PER ANSI 14.5M-1994
3. UNLESS OTHERWISE SEPCIFIED: DIMENSIONS ARE IN MILLIMETERS