# Memory Module Specifications



## KVR56S46BD8-32

32GB 2Rx8 4G x 64-Bit PC5-5600 CL46 262-Pin SODIMM

#### **DESCRIPTION**

This document describes ValueRAM's KVR56S46BD8-32 is a 4G x 64-bit (32GB) DDR5-5600 CL46 SDRAM (Synchronous DRAM), 2Rx8, memory module, based on sixteen 2G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR5-5600 timing of 46-45-45 at 1.1V. Each 262-pin SODIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

#### **FEATURES**

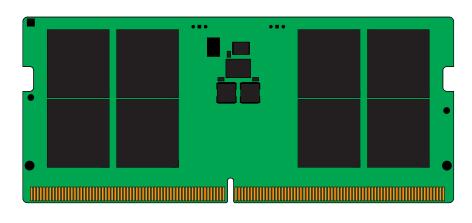
- Power Supply: VDD = 1.1V Typical
- VDDQ = 1.1V Typical
- VPP = 1.8V Typical
- VDDSPD = 1.8V to 2.0V
- · On-Die ECC
- PCB: Height 1.18" (30.00mm)
- RoHS Compliant and Halogen-Free

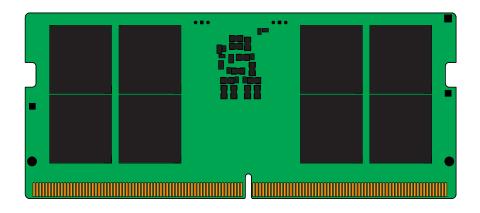
### **SPECIFICATIONS**

| CL(IDD)   | 46 cycles         |
|---|-------------------|
| Row Cycle Time (tRCmin)                             | 48ns(min.)        |
| Refresh to Active/Refresh<br>Command Time (tRFCmin) | 295ns(min.)       |
| Row Active Time (tRASmin)                           | 32ns(min.)        |
| UL Rating   | 94 V - 0          |
| Operating Temperature                               | 0° C to +85° C    |
| Storage Temperature                                 | -55° C to +100° C |

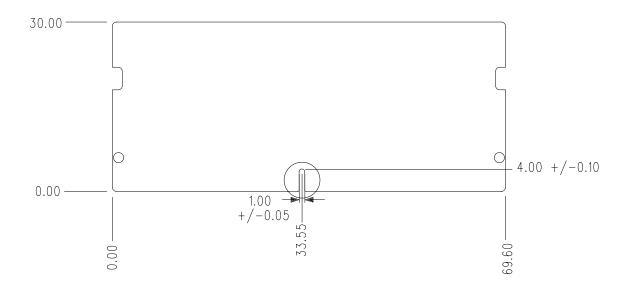
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## **MODULE DIMENSIONS**





All measurements are in millimeters. (Tolerances on all dimensions are ±0.12 unless otherwise specified)



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