

KVR56S46BS8-16

16GB 1Rx8 2G x 64-Bit

PC5-5600 CL46 262-Pin SODIMM

DESCRIPTION

This document describes ValueRAM's KVR56S46BS8-16 is a 2G x 64-bit (16GB) DDR5-5600 CL46 SDRAM (Synchronous DRAM), 1Rx8, memory module, based on eight 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(1DD)	46 cycles
Row Cycle Time (tRCmin)	48ns(min.)
Refresh to Active/Refresh 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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The image displays two views of a green printed circuit board (PCB) layout. The top view shows a populated board with various electronic components. On the left, there are two large, dark rectangular components, likely integrated circuits (ICs), arranged vertically. In the center, there is a cluster of smaller components, including several ICs, resistors, and capacitors. On the right, there are two more large, dark rectangular components, also arranged vertically. The bottom view shows the same PCB layout but without the components, highlighting the underlying traces and pads. The board has a green background with white traces and pads. The components are represented by black and grey shapes. The layout is symmetrical, with components on the left and right sides and a central cluster of components. The bottom view shows the same layout but without the components, highlighting the underlying traces and pads. The board has a green background with white traces and pads. The components are represented by black and grey shapes. The layout is symmetrical, with components on the left and right sides and a central cluster of components.

Technical drawing of a rectangular plate. The drawing shows a rectangle with a width of 69.60 and a height of 30.00. The width is dimensioned at the bottom, and the height is dimensioned on the left. There are two circular features, one on the left edge and one on the right edge, both with a diameter of 4.00 ± 0.10 . A central feature is a circular hole with a diameter of 1.00 ± 0.05 , located at a distance of 33.55 from the left edge. The drawing is a top view, and the plate is shown in a light gray color.

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