

**KVR800D2E5/1G**  
**1GB 128M x 72-Bit DDR2-800**  
**CL5 ECC 240-Pin DIMM**

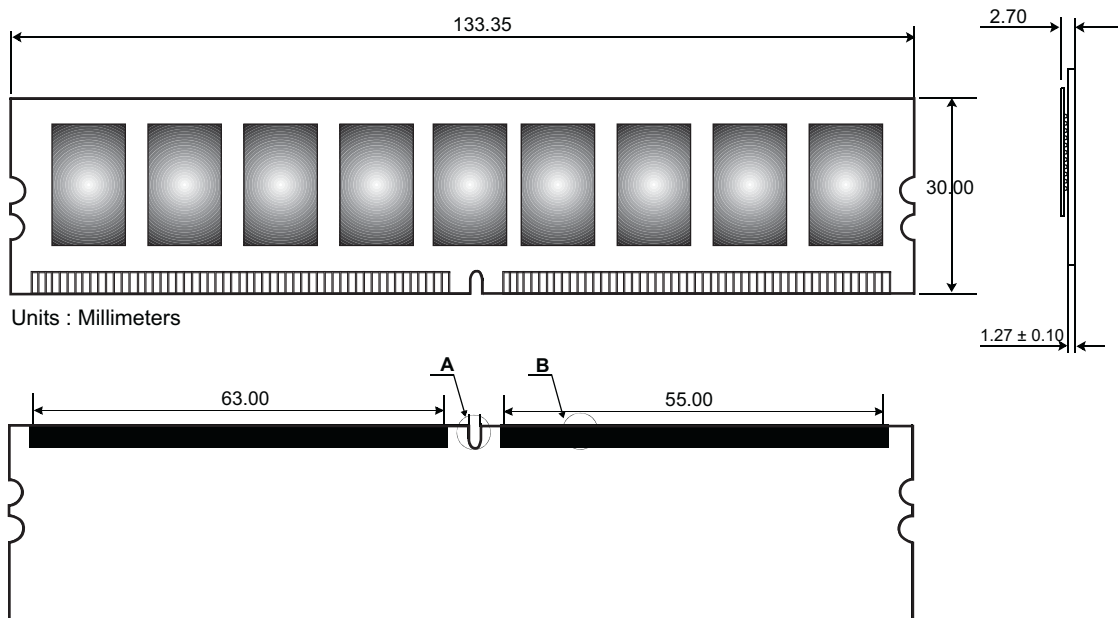
**DESCRIPTION:**

This document describes ValueRAM's 128M x 72-bit 1GB (1024MB) DDR2-800 CL5 SDRAM (Synchronous **DRAM**) ECC memory module. The components on this module include nine 128M x 8-bit DDR2-800 SDRAM in FBGA packages. This 240-pin DIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

**FEATURES:**

|   |                               |
|---|-------------------------------|
| ✓ Clock Cycle Time (tCK) CL=5                   | 2.5ns (min.) / 8ns (max.)     |
| ✓ Row Cycle Time (tRC)                          | 57.5ns (min.)                 |
| ✓ Refresh to Active/Refresh Command Time (tRFC) | 127.7ns                       |
| ✓ Row Active Time (tRAS)                        | 38ns (min.) / 70,000ns (max.) |
| ✓ Single Power Supply of                        | +1.8V (+/- .1V)               |
| ✓ Power   | 1.410 W (operating)           |
| ✓ UL Rating                                     | 94 V - 0                      |

**Note:** The module defined in this data sheet is one of several configurations available under this part number. While all configurations are compatible, the DRAM combination and/or the module height may vary from what is described here.



*Figure 1: KVR800D2E5/1G 240-Pin DIMM*