# Memory Module Specification

# KVR400D2S8R3/1G

## *1GB 128M x 72-Bit DDR2-400*
## *CL3 Registered 240-Pin ECC DIMM*

### DESCRIPTION:

This document describes Kingston's 128M x 72-bit 1GB (1024MB) DDR2-400 CL3 SDRAM (**S**ynchronous **DRAM**) "single rank" registered ECC memory module. The components on this module include nine 128M x 8-bit (16M x 8-bit x 8 Bank) DDR2-400 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=3 | 5ns (min.) / 8ns (max.) |
| ☑ Row Cycle Time (tRC) | 55ns (min.) |
| ☑ Refresh to Active/Refresh Command Time (tRFC) | 127.5ns |
| ☑ Row Active Time (tRAS) | 40ns (min.) / 70,000ns (max.) |
| ☑ Single Power Supply of | +1.8V (+/- .1V) |
| ☑ Power | 2.335 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. However, in no configuration will the module height exceed 1.250" (31.75mm).

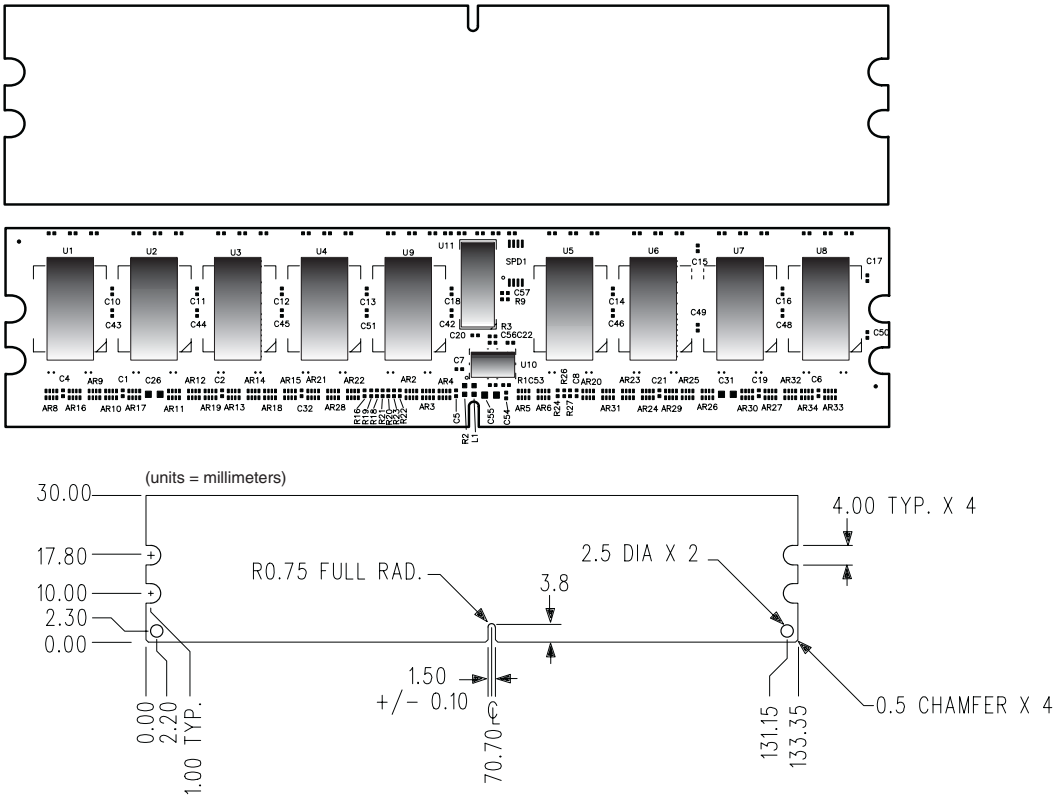


***Figure 1: KVR400D2S8R3/1G 240-Pin DIMM***



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