Kingston TECHNOLOGY — ValueRAM

KVR400D2D8R3/1G
1GB 128M x 72-Bit DDR2-400
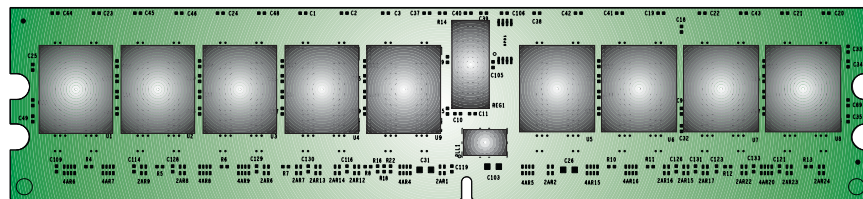### CL3 Registered 240-Pin ECC DIMM

DESCRIPTION:

This document describes Kingston's 128M x 72-bit (1GB) DDR2-400 CL3 SDRAM (**S**ynchronous **DRAM**) dual rank registered ECC memory module. The components on this module include eighteen 64M x 8-bit (16M x 8-bit x 4 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:
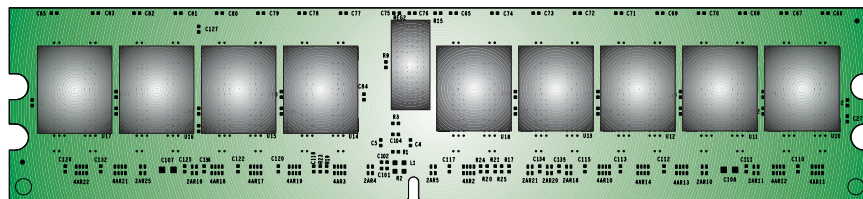
FEATURES:

- ☑ Clock Cycle Time (tCK) CL=3   5ns (min.) / 8ns (max.)
- ☑ Row Cycle Time (tRC)   55ns (min.)
- ☑ Refresh to Active/Refresh Command Time (tRFC)   105ns
- ☑ Row Active Time (tRAS)   40ns (min.) / 70,000ns (max.)
- ☑ Single Power Supply of   +1.8V (+/- .1V)
- ☑ Power   2.997 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).
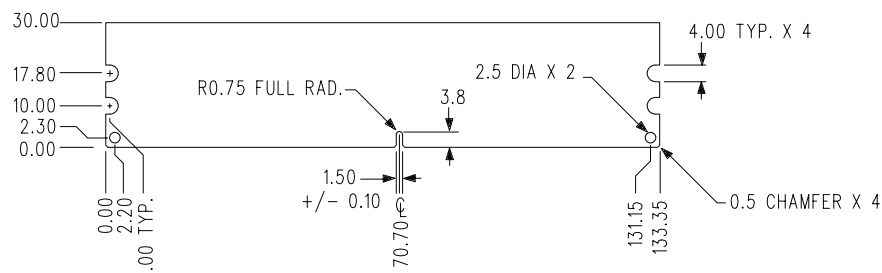

COMP SIDE

SOLDER SIDE— MIRRORED

Figure 1: KVR400D2D8R3/1G 240-Pin DIMM