

## KHX1066C5S3K2/4G

### 4GB (2GB 256M x 64-Bit x 2 pcs.) DDR3-1066MHz

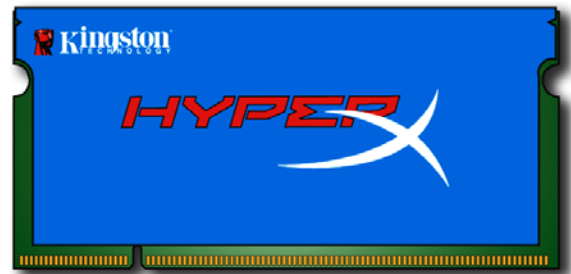
### CL5 204-Pin SODIMM Kit

#### DESCRIPTION:

Kingston's KHX1066C5S3K2/4GX is a kit of two 256M x 64-bit 2GB (2048MB) DDR3-1066MHz CL5 SDRAM (Synchronous DRAM) memory modules, based on sixteen 128M x 8-bit DDR3 FBGA components per module. Total kit capacity is 4GB. Each module kit has been tested to run at DDR3-1066MHz at a low latency timing of 5-5-5-15 at 1.5V. Each 204-pin SODIMM uses gold contact fingers and requires +1.5V. The electrical and mechanical specifications are as follows:

#### FEATURES:

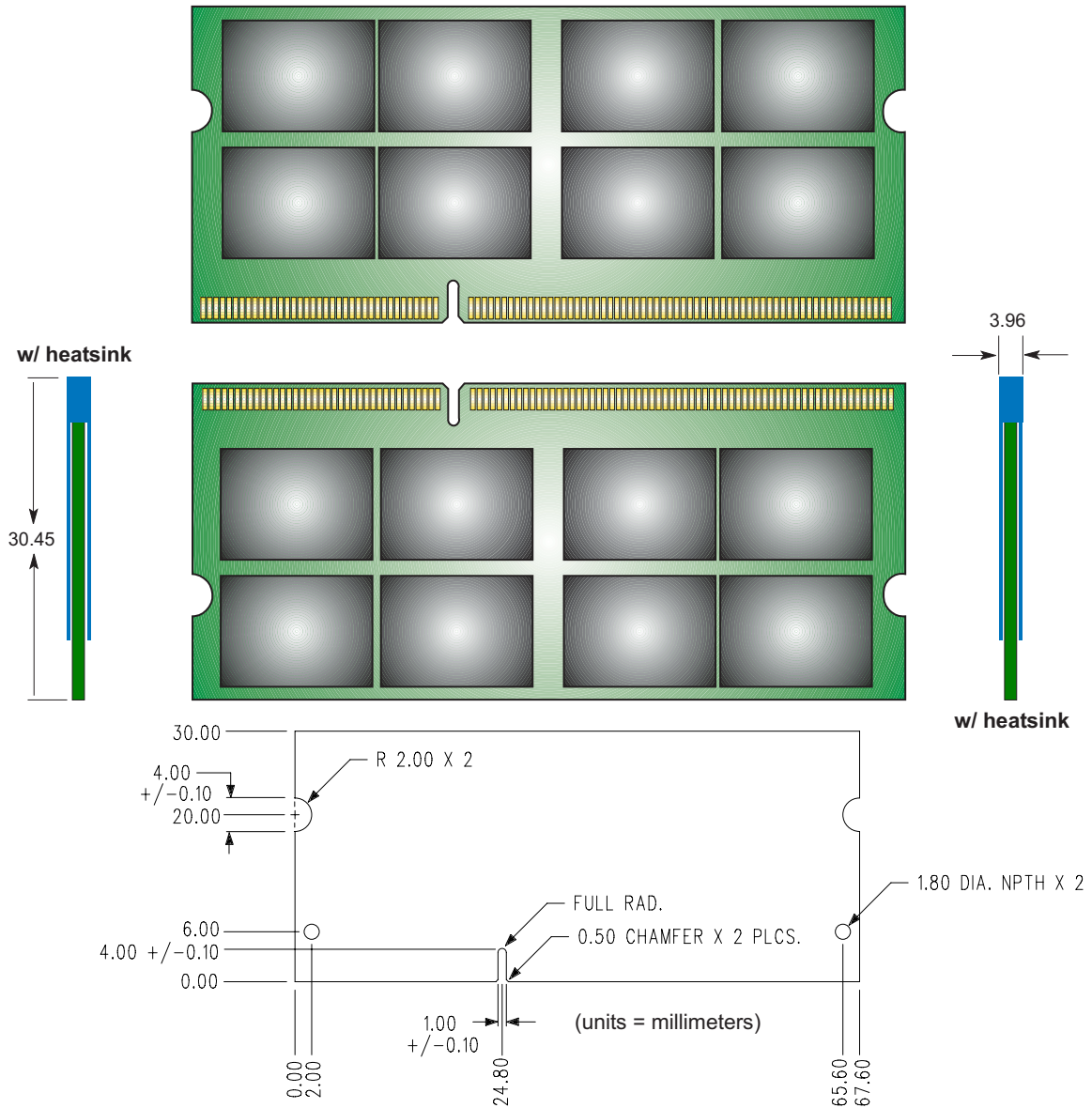
- JEDEC standard 1.5V  $\pm$  0.075V Power Supply
- VDDQ = 1.5V  $\pm$  0.075V
- 533MHz fCK for 1066Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 5,6,7,8,9
- Posted CAS
- Programmable Additive Latency: 0, CL - 2, or CL - 1 clock
- Programmable CAS Write Latency(CWL) = 6(DDR3-1066)
- 8-bit pre-fetch
- Burst Length: 8 (Interleave without any limit, sequential with starting address "000" only), 4 with tCCD = 4 which does not allow seamless read or write [either on the fly using A12 or MRS]
- Bi-directional Differential Data Strobe
- Internal(self) calibration : Internal self calibration through ZQ pin (RZQ : 240 ohm  $\pm$  1%)
- On Die Termination using ODT pin
- Average Refresh Period 7.8us at lower then TCASE 85°C, 3.9us at 85°C < TCASE . 95°C
- Asynchronous Reset
- PCB : Height 1.180" (30.00mm), double sided component



#### PERFORMANCE:

- |  |                                |
|--|--------------------------------|
| <input checked="" type="checkbox"/> CL(IDD)  | 5 cycles                       |
| <input checked="" type="checkbox"/> Row Cycle Time (tRCmin)                          | 50.63ns (min.)                 |
| <input checked="" type="checkbox"/> Refresh to Active/Refresh Command Time (tRFCmin) | 110ns                          |
| <input checked="" type="checkbox"/> Row Active Time (tRASmin)                        | 28.14ns (min.)                 |
| <input checked="" type="checkbox"/> Power  | 1.680 W (operating per module) |
| <input checked="" type="checkbox"/> UL Rating  | 94 V - 0                       |
| <input checked="" type="checkbox"/> Operating Temperature                            | 0° C to 85° C                  |
| <input checked="" type="checkbox"/> Storage Temperature                              | -55° C to +100° C              |

## MODULE DIMENSIONS:



## w/ Heatsink Assembly

