

KVR18R13D4K4/64

64GB (16GB 2Rx4 2G x 72-Bit x 4 pcs.) PC3-14900
CL13 Registered w/Parity 240-Pin DIMM Kit

DESCRIPTION

ValueRAM's KVR18R13D4K4/64 is a kit of four 2G x 72-bit (16GB) DDR3-1866 CL13 SDRAM (Synchronous DRAM), registered w/parity, 2Rx4 ECC memory modules, based on thirty-six 1G x 4-bit FBGA components per module. Total kit capacity is 64GB. The SPDs are programmed to JEDEC standard latency DDR3-1866 timing of 13-13-13 at 1.5V. Each 240-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

FEATURES

- JEDEC standard 1.5V (1.425V ~1.575V) Power Supply
- VDDQ = 1.5V (1.425V ~ 1.575V)
- 933MHz fCK for 1866Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 13, 11, 10, 9, 8, 7, 6
- Programmable Additive Latency: 0, CL - 2, or CL - 1 clock
- 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
- On-DIMM thermal sensor (Grade B)
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE $\leq$ 95°C
- Asynchronous Reset
- PCB : Height 1.180" (30.00mm), double sided component

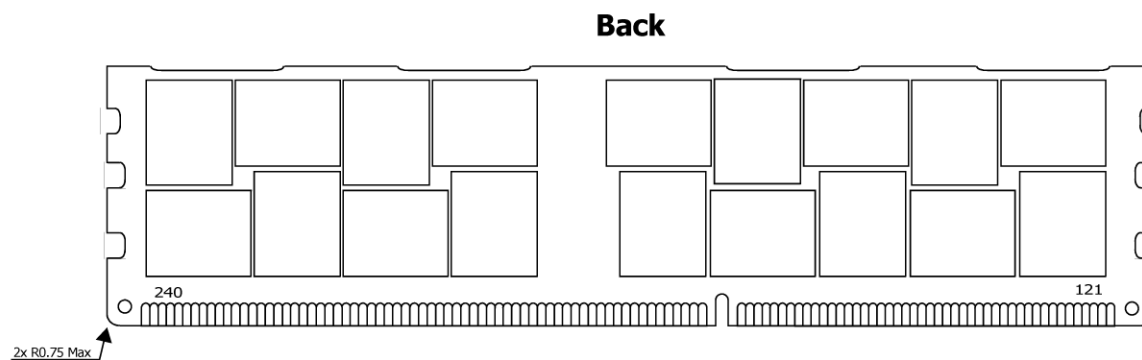
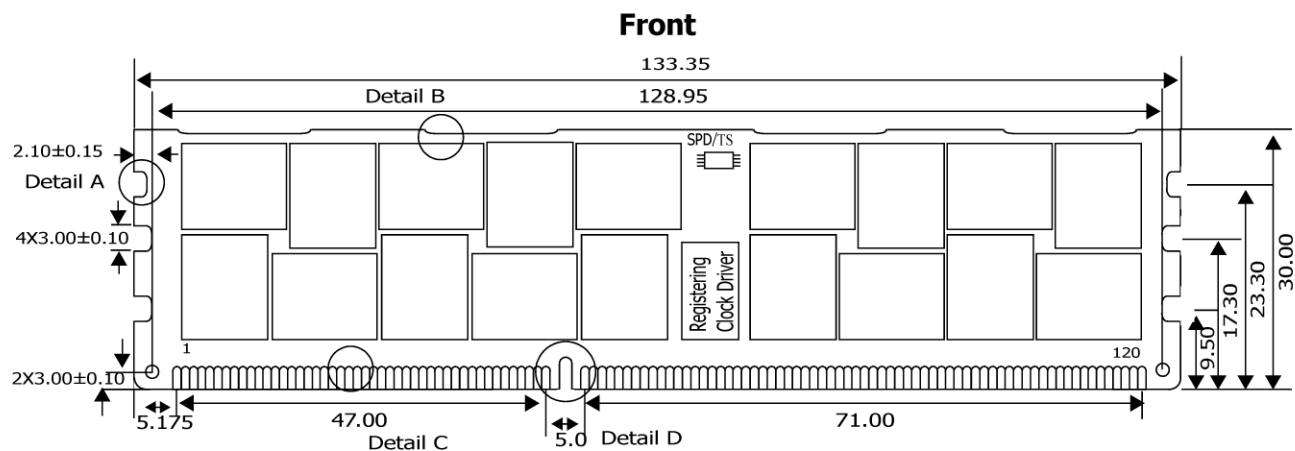
SPECIFICATIONS

CL(IDD)	13 cycles
Row Cycle Time (tRCmin)	47.125ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	260ns (min.)
Row Active Time (tRASmin)	34ns (min.)
Maximum Operating Power	6.330 W* (per module)
UL Rating	94 V - 0
Operating Temperature	0° C to 85° C
Storage Temperature	-55° C to +100° C

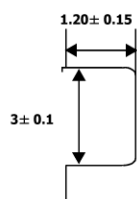
*Power will vary depending on the SDRAM and Register/PLL used.

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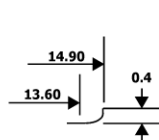
MODULE DIMENSIONS



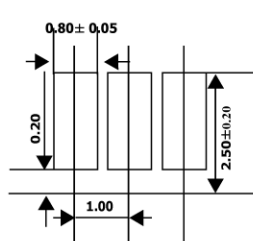
Detail of Contacts A



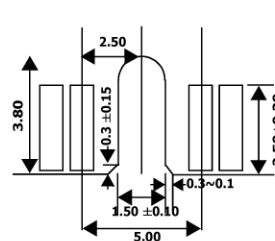
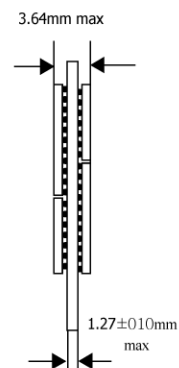
Detail of Contacts B



Detail of Contacts C



Detail of Contacts D

**Side****Note:**

1. ±0.13 tolerance on all dimensions unless otherwise stated.

Units: millimeters

Front

133.75
133.35
127
42.7
20.9
6.35
2.1
5.39
3.69
8
6.3
10
7.74
2.786
14.214
22.00
30.20
1
120
7.36
46.46
33.4
80.54
33.4
119.64

Back

57.2
2.7
121
240
15.36
22.00
2x R0.75 Max

Side

7.65mm max
1.27±0.10mm max

1. ± 0.13 tolerance on all dimensions unless otherwise stated.
2. In order to uninstall FDHS, please contact sales administrator.

Document No. VALUERAM1412-001.A00 Page 3