KVR16LN11/8WP

8GB 2Rx8 1G x 64-Bit PC3L-12800
CL11 240-Pin DIMM

DESCRIPTION

This document describes ValueRAM's 1G x 64-bit (8GB) DDR3L-1600 CL11 SDRAM (Synchronous DRAM), 2Rx8, low voltage, memory module, based on sixteen 512M x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR3-1600 timing of 11-11-11 at 1.35V or 1.5V. This 240-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

FEATURES

- JEDEC standard 1.35V and 1.5V Power Supply

- VDDQ = 1.35V and 1.5V

- 800MHz fCK for 1600Mb/sec/pin

- 8 independent internal bank

- Programmable CAS Latency: 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 ± 1%)

- On Die Termination using ODT pin

- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE ≤ 95°C

- Asynchronous Reset

- PCB: Height 0.740" (18.75mm) or 1.180" (30.00mm)

SPECIFICATIONS

CL(IDD)	11 cycles
Row Cycle Time (tRCmin)	48.125ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	260ns (min.)
Row Active Time (tRASmin)	35ns (min.)
UL Rating	94 V - 0
Operating Temperature	0° C to 85° C
Storage Temperature	-55° C to +100° C

Important Information: 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.

MODULE DIMENSIONS:

Units: millimeters

133.35

30.00

18.80
15.80

11.00
8.00

0.00

0.00

54.70

(Units = Millimeters)

18.75

15.80

11.00
8.00
2.30

0.00

R 0.75

0.50 x 45 DEG.
2 PLACES

3.80

2.50 DIA X 2

R 0.65
6 PLACES

1.50

0.00
2.10
2.20

54.68

131.15
131.25
133.35
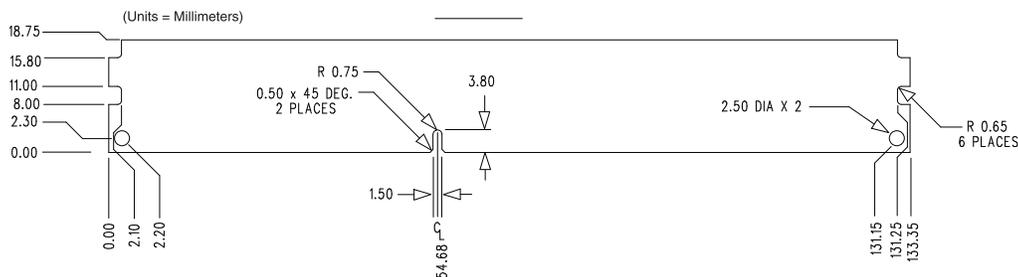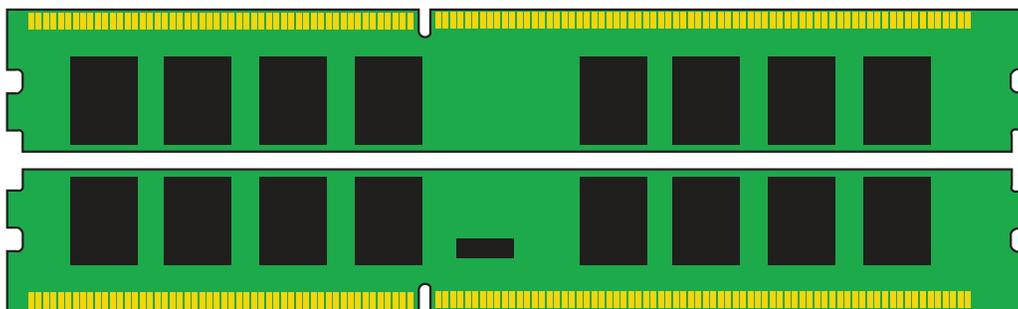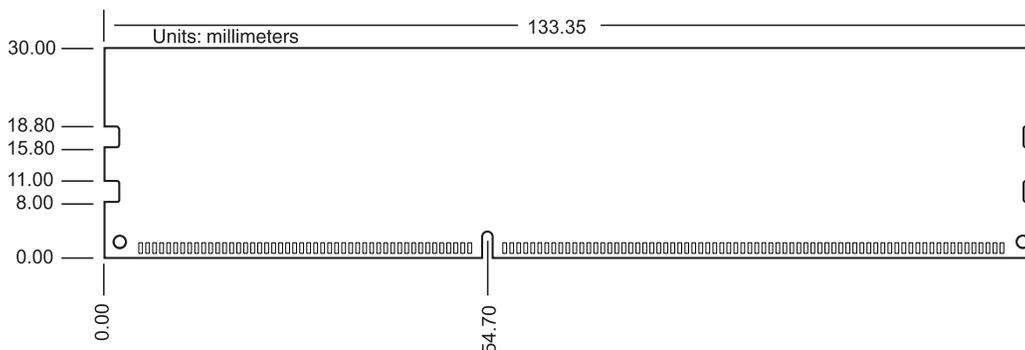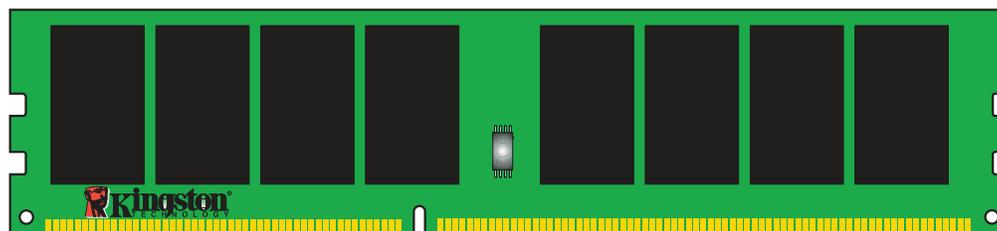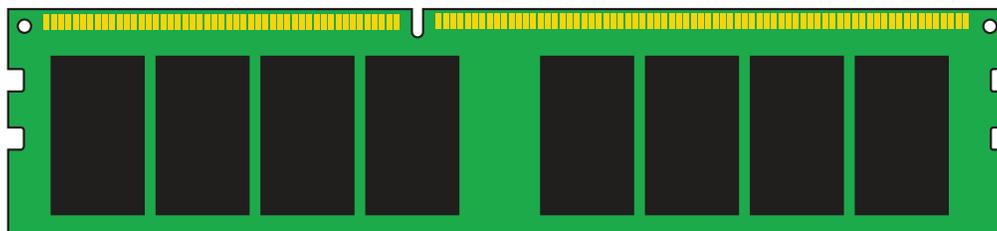
The product images shown are for illustration purposes only and may not be an exact representation of the product.
Kingston reserves the right to change any information at anytime without notice.