



DDR4 U-DIMM 2666 16GB
CL19 1.2V

(RoHS compliant)

Product Type : U-DDR4 U-DIMM 2666 16GB CL19 1.2V

Customer : _____

Date : 2022/07/06

Approved by : Abel

DDR4 U-DIMM 2666 16GB CL19 1.2V

Description

RiTEK'S memory module is organized 64 bits in a 288 pin memory module, Based on 8bit DDR4 FBGA components per module.

The U-DIMM is intended for use in applications operating up to 1600MHz clock speeds and achieves high-speed data transfer rates of up to 2666MHz..

Features

- DDR4 functionality and operations supported as defined in the component data sheet
- VDD = VDDQ = 1.2V \pm 60mV
- VPP = 2.5V, -125mV, +250mV
- On-die, internal, adjustable VREFDQ generation
- 1.2V pseudo open-drain I/O
- Refresh time of 8192-cycle at TC temperature range:
 - - 64ms at -40°C to 85°C
 - - 32ms at >85°C to 95°C
 - - 16ms at >95°C to 105°C
- 16 internal banks (x4, x8): 4 groups of 4 banks each
- 8n-bit prefetch architecture
- Programmable data strobe preambles
- Data strobe preamble training
- Command/Address latency (CAL)
- Multipurpose register READ and WRITE capability
- Write leveling
- Self refresh mode
- Low-power auto self refresh (LPASR)
- Temperature controlled refresh (TCR)
- Fine granularity refresh
 - Self refresh abort
 - Maximum power saving
- Output driver calibration

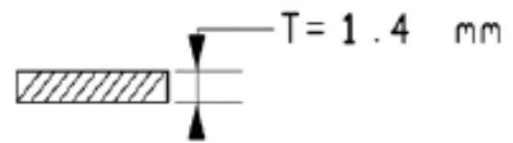
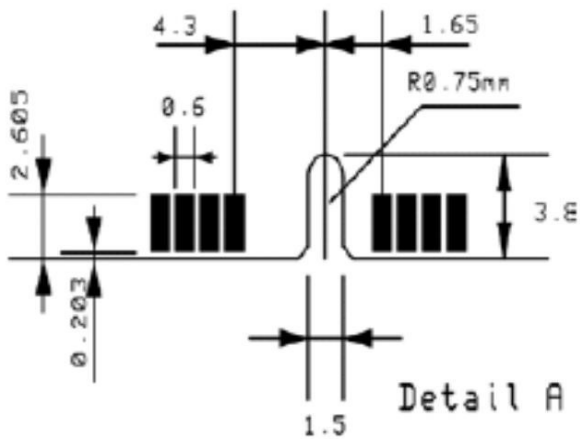
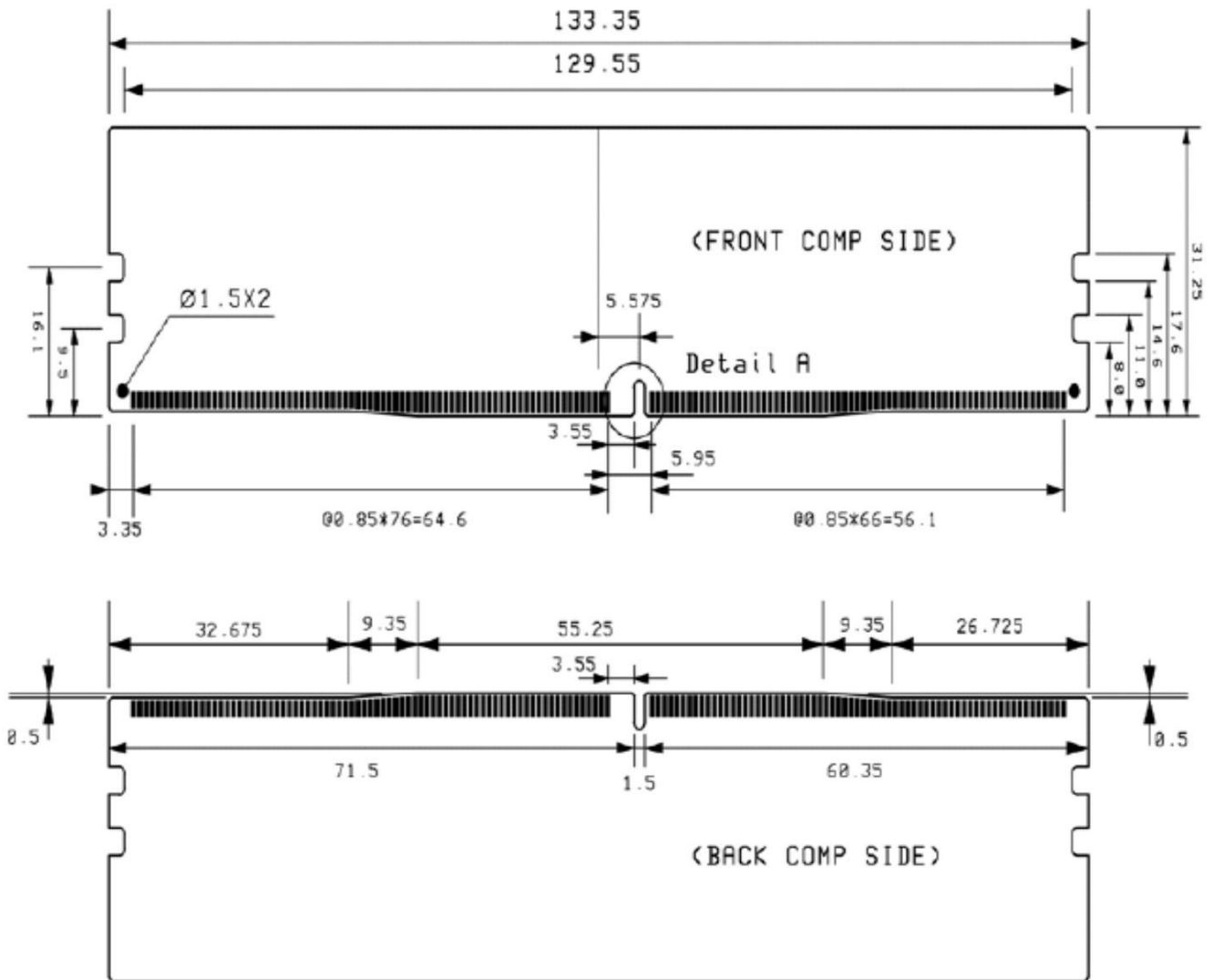
- Nominal, park, and dynamic on-die termination (ODT)
- Data bus inversion (DBI) for data bus
- Command/Address (CA) parity
- Databus write cyclic redundancy check (CRC)
- Per-DRAM addressability
- Connectivity test
- JEDEC JESD-79-4 compliant
- sPPR and hPPR capability

Options

Configuration

- Configuration
 - 1 Gig x 8 1G8
- 78-ball FBGA package (Pb-free)
 - x8
 - 7.5mm x 12mm
- Timig
 - cycle time
 - 0.750ns @ CL = 19 (DDR4-2666)
- Operating temperature
 - Commercial (0°C \leq TC \leq 95°C)
 - Industrial (-40°C \leq TC \leq 95°C)
 - Automotive (-40°C \leq TC \leq 105°C)

Package Dimensions



TOLERANCE, $\pm 0.1mm$

UNIT, mm 03/18/14