Memory Module Specifications

## KSM26RD8/32MEI

32GB 2Rx8 4G x 72-Bit PC4-2666 CL19 Registered w/Parity 288-Pin DIMM

#### DESCRIPTION

Kingston's KSM26RD8/32MEI is a 4G x 72-bit (32GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM) registered w/ parity, 2Rx8, ECC, memory module, based on eighteen 2G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR4-2666 timing of 19-19-19 at 1.2V. Each 288-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

### **FEATURES**

- Power Supply: VDD = 1.2V
- VDDQ = 1.2V
- VPP = 2.5V
- VDDSPD = 2.41V to 2.75V
- · Functionality and operations comply with the DDR4 SDRAM datasheet
- 16 internal banks ٠
- Bank Grouping is applied, and CAS to CAS latency (tCCD\_L, tCCD\_S) for the banks in the same or different bank group accesses are available
- Data transfer rates: PC4-2666, PC4-2400, PC4-2133, PC4-1866, PC4-1600
- Bi-Directional Differential Data Strobe •
- 8 bit pre-fetch
- Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- · Supports ECC error correction and detection
- On-Die Termination (ODT)
- · Temperature sensor with integrated SPD
- This product is in compliance with the RoHS directive.
- · Per DRAM Addressability is supported
- · Internal Vref DQ level generation is available
- · Write CRC is supported at all speed grades
- · CA parity (Command/Address Parity) mode is supported

#### SPECIFICATIONS

CL(IDD)	19 cycles	
Row Cycle Time (tRCmin)	46.25ns(min.)	
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)	
Row Active Time (tRASmin)	32ns(min.)	
Maximum Operating Power	*	
UL Rating	94 V - 0	
Operating Temperature	0° C to +85° C	
Storage Temperature	-55° C to +100° C	

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\* See IDD Table (page2)

#### Module Assembly

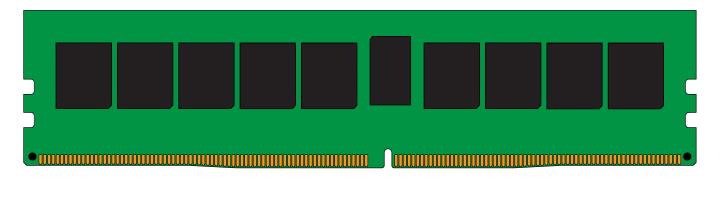
DRAM: MICRON (E-DIE) RCD: IDT

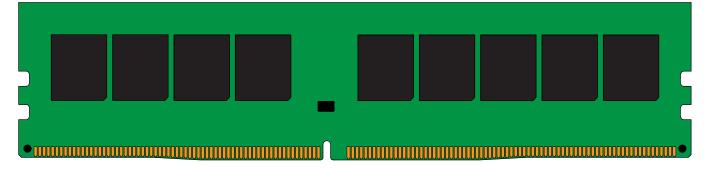
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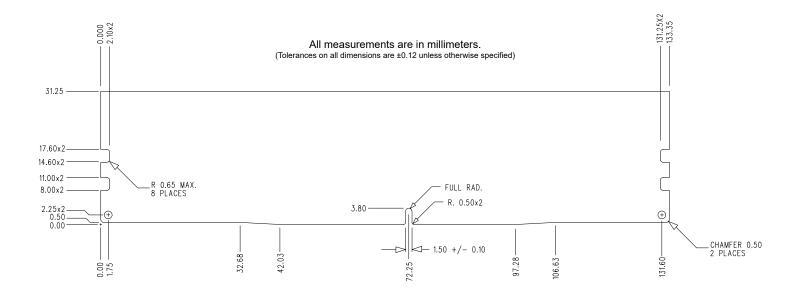
# **IDD Specifications**

Symbol	2666	Units
I <sub>DD0</sub>	864	mA
I <sub>PP0</sub>	45	mA
I <sub>DD1</sub>	963	mA
I <sub>DD2N</sub>	774	mA
I <sub>DD2NT</sub>	783	mA
I <sub>DD2P</sub>	684	mA
I <sub>DD2Q</sub>	756	mA
I <sub>DD3N</sub>	1062	mA
I <sub>PP3N</sub>	36	mA
I <sub>DD3P</sub>	864	mA
I <sub>DD4R</sub>	1656	mA
I <sub>DD4W</sub>	1395	mA
I <sub>DD5R</sub>	954	mA
I <sub>PP5R</sub>	54	mA
I <sub>DD6N</sub>	684	mA
I <sub>DD6E</sub>	2034	mA
I <sub>DD6R</sub>	360	mA
I <sub>DD6A (25°C)</sub>	198	mA
I <sub>DD6A (45°C)</sub>	360	mA
I <sub>DD6A (75°C)</sub>	918	mA
I <sub>DD6A (95°C)</sub>	2034	mA
I <sub>PP6X</sub>	954	mA
I <sub>DD7</sub>	1971	mA
I <sub>PP7</sub>	90	mA
I <sub>DD8</sub>	648	mA

#### MODULE DIMENSIONS







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