

Memory Module Specifications

KSM26ES8/16MF

16GB 1Rx8 2G x 72-Bit PC4-2666

CL19 288-Pin DIMM

DESCRIPTION

Kingston's KSM26ES8/16MF is a 2G x 72-bit (16GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM), 1Rx8, ECC, memory module, based on nine 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 Typical
- VDDQ = 1.2V Typical
- VPP = 2.5V Typical
- VDDSPD = 2.2V to 3.6V
- Nominal and dynamic on-die termination (ODT) for data, strobe, and mask signals
- Data transfer rates: PC4-2666, PC4-2400, PC4-2133, PC4-1866, PC4-1600
- Low-power auto self refresh (LPASR)
- Data bus inversion (DBI) for data bus
- On-die VREFDQ generation and calibration
- Single-rank
- On-board I2 serial presence-detect (SPD) EEPROM
- Temperature sensor with integrated SPD
- 16 internal banks; 4 groups of 4 banks each
- Fixed burst chop (BC) of 4 and burst length (BL) of 8 via the mode register set (MRS)
- Selectable BC4 or BL8 on-the-fly (OTF)
- Fly-by topology
- Terminated control command and address bus
- PCB: Height 1.23" (31.25mm)
- RoHS Compliant and Halogen-Free

SPECIFICATIONS

CL(IDD)	19 cycles
Row Cycle Time (tRCmin)	45.75ns(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

*See IDD Specifications (page 2)

Module Assembly

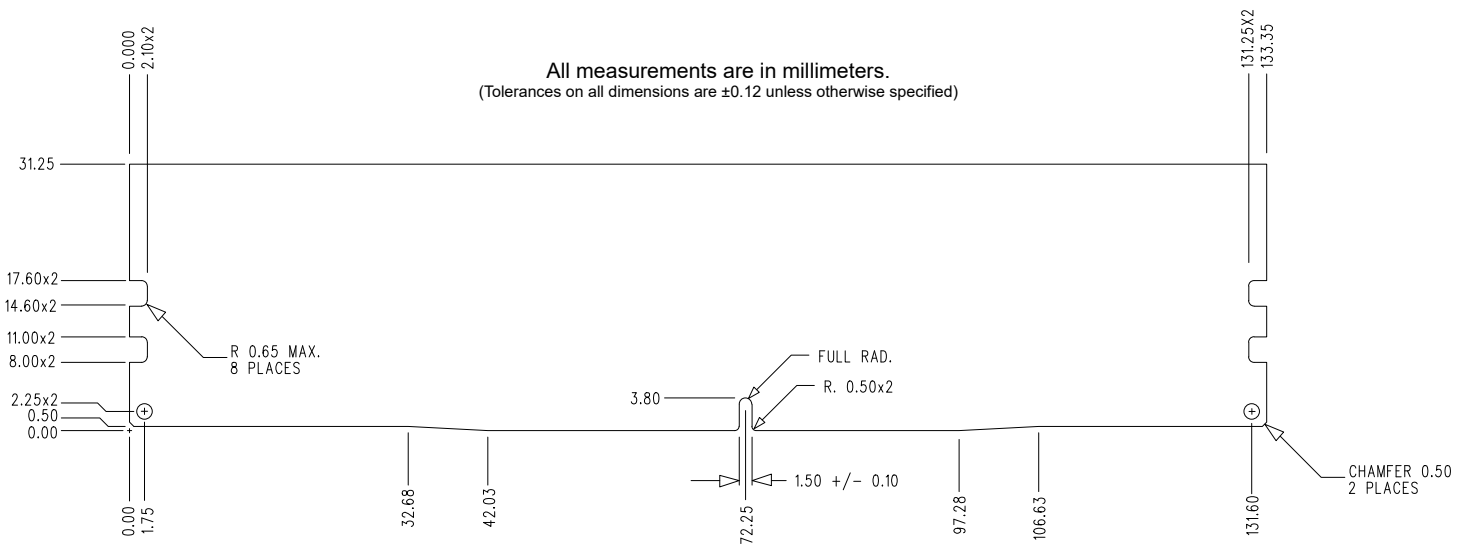
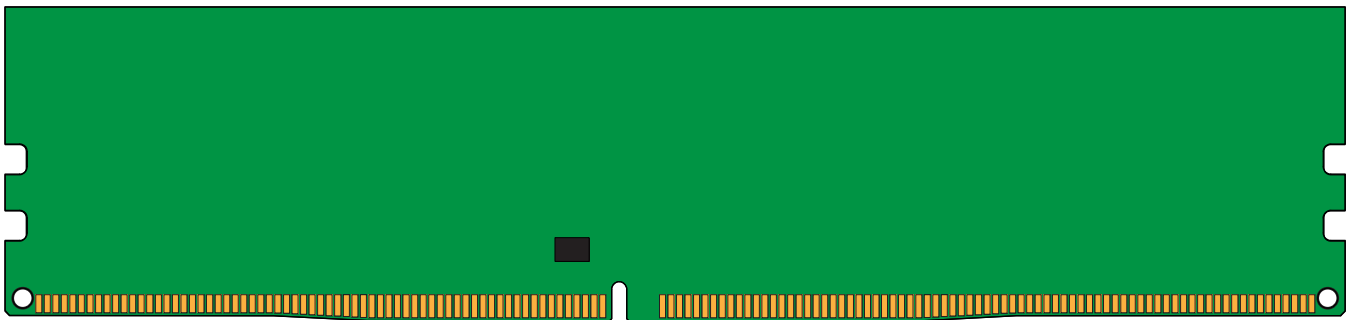
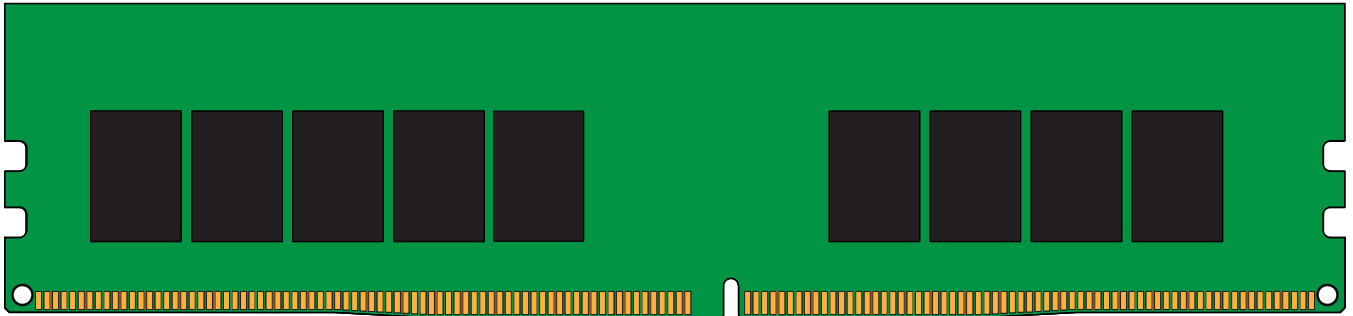
DRAM: MICRON (F-DIE)

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IDD Specifications

Symbol	2666	Units
I _{DD0}	522	mA
I _{PP0}	27	mA
I _{DD1}	621	mA
I _{DD2N}	387	mA
I _{DD2NT}	441	mA
I _{DD2P}	342	mA
I _{DD2Q}	378	mA
I _{DD3N}	531	mA
I _{PP3N}	18	mA
I _{DD3P}	432	mA
I _{DD4R}	1125	mA
I _{DD4W}	918	mA
I _{DD5R}	612	mA
I _{PP5R}	36	mA
I _{DD6N}	477	mA
I _{DD6E}	810	mA
I _{DD6R}	180	mA
I _{DD6A} (25°C)	99	mA
I _{DD6A} (45°C)	180	mA
I _{DD6A} (75°C)	459	mA
I _{DD6A} (95°C)	810	mA
I _{PP6X}	54	mA
I _{DD7}	1467	mA
I _{PP7}	72	mA
I _{DD8}	324	mA

MODULE DIMENSIONS



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