# **Memory Module Specifications**

# KSM48R40BD8KMM-32HMR

32GB 2Rx8 4G x 80-Bit PC5-4800 CL40 Registered EC8 288-Pin DIMM

## DESCRIPTION

Kingston's KSM48R40BD8KMM-32HMR is a 4G x 80-bit (32GB) DDR5-4800 CL40 SDRAM (Synchronous DRAM), 2Rx8, ECC, memory module, based on twenty 2G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR5-4800 timing of 40-39-39 at 1.1V. Each 288-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

# **FEATURES**

- Power Supply: VDD = 1.1V Typical
- VDDQ = 1.1V Typical
- VPP = 1.8V Typical
- VDDSPD = 1.8V to 2.0V
- On-Die ECC
- x80 ECC (x40, 2 independent I/O sub channels)
- · 32 internal banks
- Hard/Soft Post Package Repair
- Sideband access with I3C/I2C
- PCB: Height 1.23" (31.25mm)
- **RoHS Compliant and Halogen-Free** ٠

# SPECIFICATIONS

CL(IDD)	40 cycles
Row Cycle Time (tRCmin)	48ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	295ns(min.)
Row Active Time (tRASmin)	32ns(min.)
Row Precharge Time (tRPmin)	16ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +95° C
Storage Temperature	-55° C to +100° C

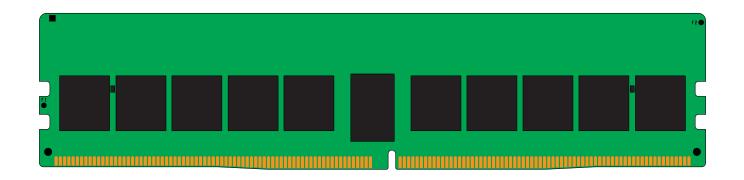
### **Module Assembly**

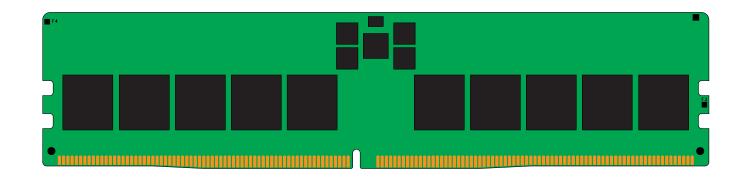
DRAM: HYNIX (M-Die)				
RCD: Rambus				
PMIC: Richtek				
SPD Hub: Montage				
TS: Montage				

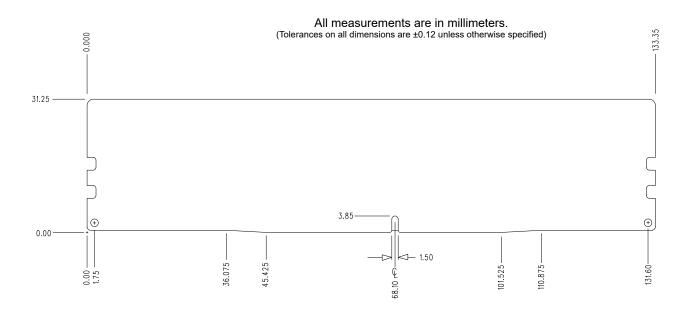
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## MODULE DIMENSIONS







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А	Initial Release	12/2/2022		Kirk F.	Henry N.		
В	Change measurements (pg2)	4/24/2023		David Yen	Henry N.		
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