

# Memory Module Specifications

## KF580C38RSK2-48

48GB (24GB 3G x 64-Bit x 2 pcs.)  
DDR5-8000 CL38 288-Pin DIMM Kit



## SPECIFICATIONS

CL	46 cycles
Row Cycle Time (tRCmin)	48ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	410ns(min.)
Row Active Time (tRASmin)	32ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +85° C
Storage Temperature	-55° C to +100° C

## DESCRIPTION

Kingston FURY KF580C38RSK2-48 is a kit of two 3G x 64-bit (48GB) DDR5-8000 CL38 SDRAM (Synchronous DRAM) 1Rx8, memory module, based on eight 3G x 8-bit FBGA components per module. Each module kit supports Intel® Extreme Memory Profiles (Intel® XMP) 3.0. Total kit capacity is 48GB. Each module has been tested to run at DDR5-8000 at a low latency timing of 38-48-48 at 1.4V. The SPDs are programmed to JEDEC standard latency DDR5-5600 timing of 46-45-45 at 1.1V. Each 288-pin DIMM uses gold contact fingers. The JEDEC standard electrical and mechanical specifications are as follows:

## FEATURES

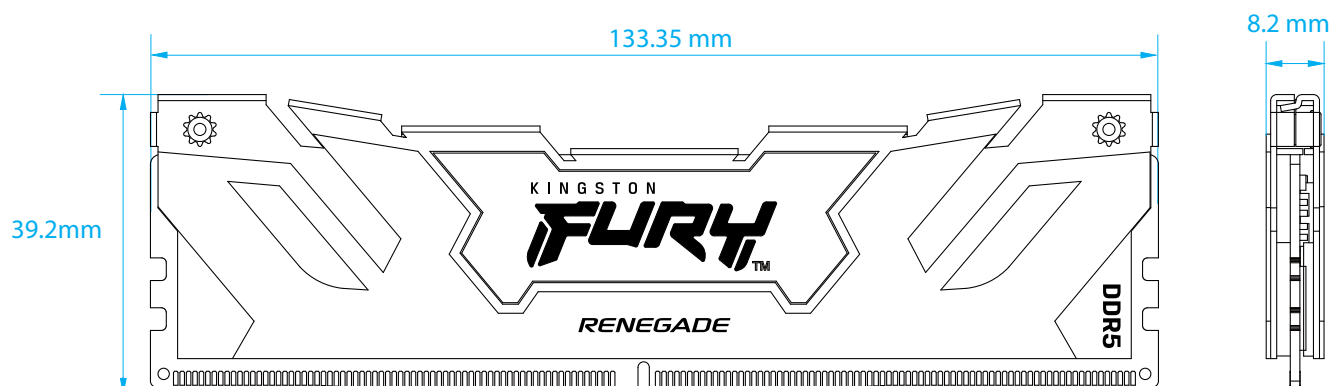
- Power Supply: VDD = 1.1V Typical
- VDDQ = 1.1V Typical
- VPP = 1.8V Typical
- VDDSPD = 1.8V to 2.0V
- On-Die ECC
- Height 1.54" (39.2mm), w/heatsink

## FACTORY TIMING PARAMETERS

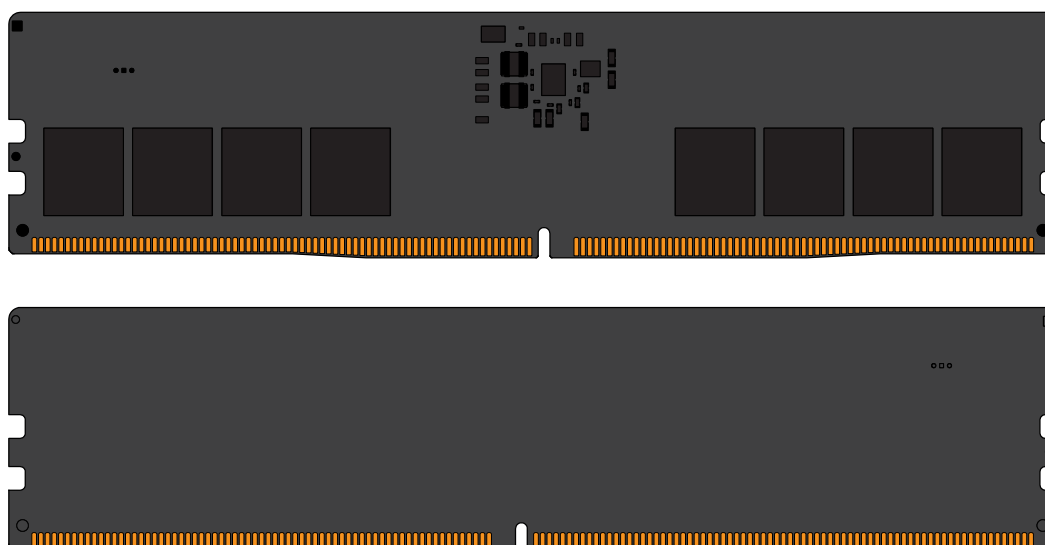
- Default (JEDEC): DDR5-5600 CL46-45-45 @1.1V
- XMP Profile #1: DDR5-8000 CL38-48-48 @1.4V
- XMP Profile #2: DDR5-7200 CL38-44-44 @1.4V

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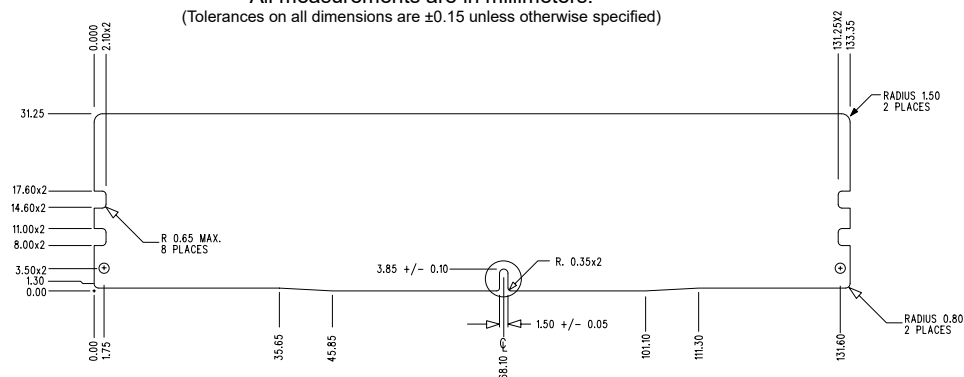
## MODULE WITH HEAT SPREADER



## MODULE DIMENSIONS



All measurements are in millimeters.  
(Tolerances on all dimensions are  $\pm 0.15$  unless otherwise specified)



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