



# DDR2 SDRAM UNBUFFERED MINI-DIMM MODULE, 1.8V 2GByte - 256MX72 ECC AVG7256U64E5667F1-AP

## FEATURES

JEDEC DDR2 PC2-5300 667MT/s, Lead Free, RoHS compliant

- Clock frequency: 333MHz with CAS latency 5
- 256 byte serial EEPROM
- Support ECC error detection and correction
- Support duplicate output strobe
- Programmable burst length: 4, 8
- Programmable CAS latency: 5
- Four-bit prefetch architecture
- Differential data strobe option
- Low active and standby current consumption
- SSTL\_18 compatible inputs and outputs (1.8V)
- On-die termination (ODT)
- 8K refresh per 64ms
- Gold card edge fingers
- Double-sided module
- 18.30mm (0.72 inch) height

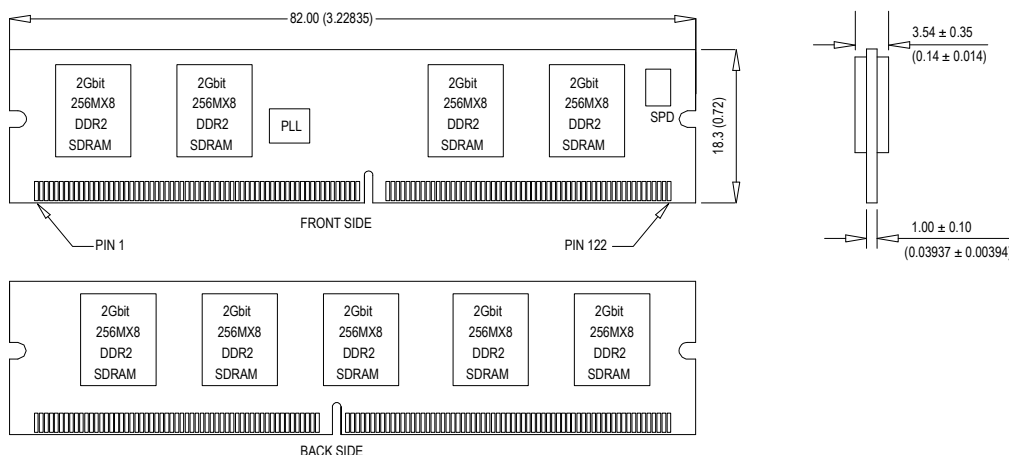
## DESCRIPTION

The AVG7256U64E5667F1-AP is an Unbuffered DDR2 SDRAM miniDIMM module. This module is JEDEC Pinout compatible DDR2 SDRAM Unbuffered mini-DIMM. The module utilizes a phase lock loop to reduce the capacitive loading on the clock signals and to synchronize all SDRAM input clocks with the system clock. A 256 byte serial EEPROM on board can be used to store module information such as timing, configuration, density, etc.

The AVG7256U64E5667F1-AP memory module is 2GByte and organized as 256MX72 ECC array using (9) 256MX8 DDR2 SDRAMs in lead-free FBGA packages.

The module PCB is fabricated using the latest technology design, ten-layer printed circuit board substrate construction with low ESR decoupling capacitors on-board for high reliability and low noise.

## PHYSICAL DIMENSIONS



NOTES: 1- All dimensions are in millimeters (inches)  
2- The dimensional drawings are for reference only. Refer to the JEDEC document for additional information.

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| <b>AV</b>  | <b>G</b>                   | <b>72</b> | <b>56</b> | <b>U</b>     | <b>64</b>                 | <b>E</b> | <b>5</b>          | <b>667</b> | <b>F</b>       | <b>1</b> |
|------------|----------------------------|-----------|-----------|--------------|---------------------------|----------|-------------------|------------|----------------|----------|
| INVENTORY  | MOD. TYPE                  | ORG.      | DENSITY   | PARITY       | TYPE                      | VOLT.    | FEATURE           | SPEED      | MODE           | REV      |
| AV = AVANT | G = 244 PIN DDR2 MINI-DIMM | 72 = X72  | 56 = 256M | U=Unbuffered | 64 = 64Mx8x4 (DDR2 SDRAM) | E = 1.8V | 5 = CAS LATENCY 5 | 667MT/s    | F = DDR2 SDRAM | REV-1    |

Other options may be available. Call for specific part number information on options not listed.



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