



# DDR2 SDRAM REGISTERED DIMM MODULE, 1.8V

## 1GByte - 128MX72

### AVF7228R61E6800F3-AP

## FEATURES

JEDEC DDR2 PC2-6400 800MT/s, Lead Free, RoHS compliant

- Clock frequency: 400MHz with CAS latency 6
- 256 byte serial EEPROM
- Data input and output masking
- Programmable burst length: 2, 4, 8
- Programmable burst type: sequential and interleave
- Programmable CAS latency: 6
- Auto refresh and self refresh capability
- Gold card edge fingers
- 8K refresh per 64ms
- Low active and standby current consumption
- SSTL-2 compatible inputs and outputs
- Decoupling capacitors at each memory device
- Double-sided module
- 18.29 mm (0.72 inch) height

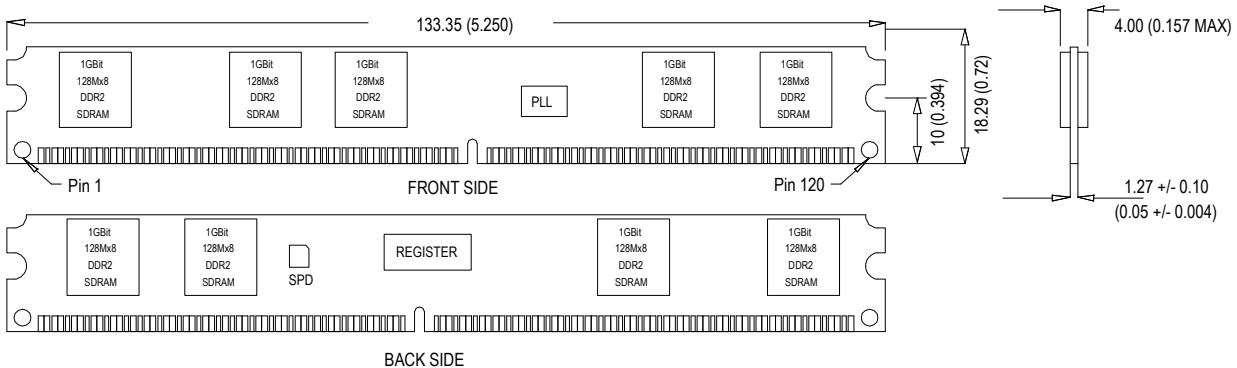
## DESCRIPTION

The AVF7228R61E6800F3-AP is a VLP (Very Low Profile) Registered DDR2 SDRAM DIMM module. This module is JEDEC MO-237 R/C R DDR2 SDRAM Registered DIMM. The module has all the addresses and control signals buffered to reduce capacitive loading. 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 AVF7228R61E6800F3-AP memory module is 1GByte and organized as 128Mx72 ECC array using (9) 128Mx8 DDR2 SDRAMs in lead-free FBGA packages.

The module PCB is fabricated using the latest technology design, six-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.

**Avant Ordering Guides**

AV	F	72	28	R	61	E	6	800	F	3
INVENTORY	MOD. TYPE	ORG.	DENSITY	PARITY	TYPE	VOLT.	FEATURE	SPEED	MODE	REV
AV=AVANT	F=240-PIN DDR2 DIMM	72=X72	28 = 128M	R=REGISTERED	61 = 16Mx8x8 (DDR2 SDRAM)	E=1.8V	6 = CAS LATENCY 6	800MT/s	F=DDR2 SDRAM	REV=3

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



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