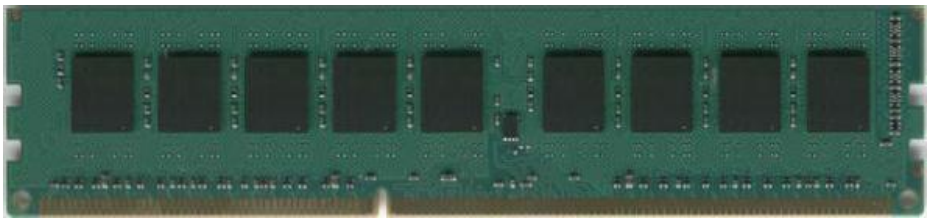
DVM16E2S8/8G

8GB - 240-Pin 2Rx8 Unbuffered ECC DDR3 DIMM

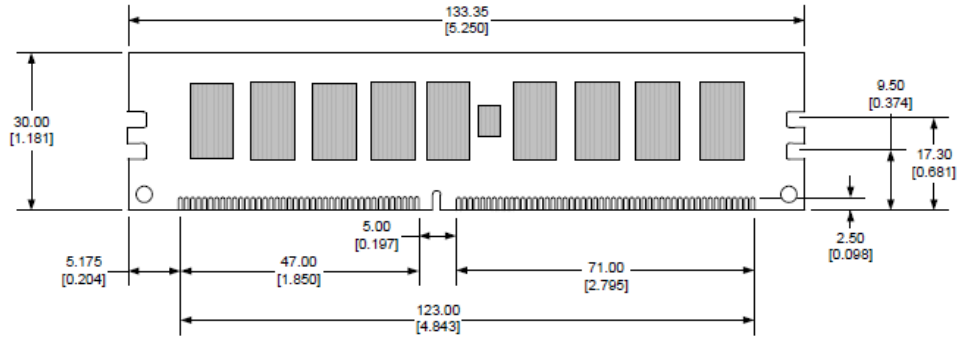
Identification
DVM16E2S8/8G 1Gx72
8GB 2Rx8 PC3-12800E-11



Performance Range
Clock / Module Speed / CL-t_{RCD} –t_{RP}
800 MHz / PC3-12800 / 11-11-11
667 MHz / PC3-10600 / 10-10-10
667 MHz / PC3-10600 / 9-9-9
533 MHz / PC3-8500 / 8-8-8
533 MHz / PC3-8500 / 7-7-7
400 MHz / PC3-6400 / 6-6-6

Features	Description
240-pin JEDEC-compliant DIMM, 133.35 mm wide by 30.00 mm high Operating Voltage: 1.5V ±0.075V, I/O Type: SSTL_15 On-board I^2C temperature sensor with integrated Serial Presence-Detect (SPD) EEPROM Data Transfer Rate: 12.8 Gigabytes/sec Data Bursts: 8 and burst chop 4 mode ZQ Calibration for Output Driver and On-Die Termination (ODT) Programmable ODT / Dynamic ODT during Writes Programmable CAS Latency: 6, 7, 8, 9, 10 and 11 Bi-directional Differential Data Strobe signals SDRAM Addressing (Row/Col/BG/BA): 16/10/3 Fully RoHS Compliant	**DVM16E2S8/8G** is an unbuffered 1Gx72 memory module, which conforms to JEDEC's DDR3, PC3-12800 standard. The assembly is Dual Rank. Each rank is comprised of nine 512Mx8 DDR3 SDRAMs. One EEPROM is used for Serial Presence Detect and a combination register/PLL, with Address and Command Parity, is also used. Both output driver strength and input termination impedance are programmable to maintain signal integrity on the I/O signals in a Fly-by topology. A thermal sensor accurately monitors the DIMM module and can prevent exceeding the maximum operating temperature of 95C.

Front view

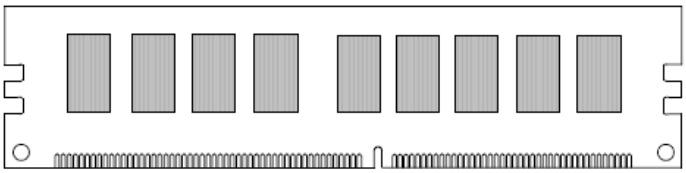


Notes

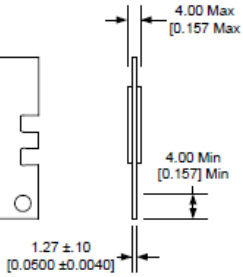
Tolerances on all dimensions except where otherwise indicated are ±.13 (.005).

All dimensions are expressed in millimeters [inches]

Back view



Side view



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