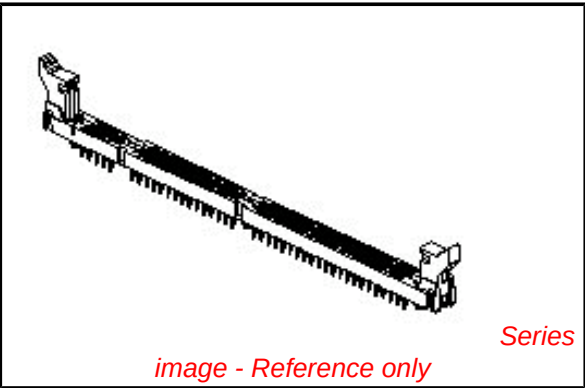


PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0712512002](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch DIMM Socket, Vertical, Multiple Keys, Plastic Peg, 168 Circuits, 5.0V Standard DRAM, 10.00mm (.394") Latch Length

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| <b>Documents:</b>             |                                                           |
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-71243-9999 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>      |

|                                |                                          |
|--------------------------------|------------------------------------------|
| <b>Agency Certification</b>    |                                          |
| CSA                            | LR19980                                  |
| UL                             | E29179                                   |
| <b>General</b>                 |                                          |
| Product Family                 | Memory Module Sockets                    |
| Series                         | <a href="#">71251</a>                    |
| Comments                       | Function Key Center, Voltage Offset Left |
| Component Type                 | Memory Module                            |
| JEDEC Outline                  | MO-172                                   |
| Product Name                   | DIMM                                     |
| <b>Physical</b>                |                                          |
| Circuits (Loaded)              | 168                                      |
| Circuits (maximum)             | 168                                      |
| Color - Resin                  | Black, Natural                           |
| Durability (mating cycles max) | 25                                       |
| Entry Angle                    | Vertical (Top Entry)                     |
| Flammability                   | 94V-0                                    |
| Function Key                   | Center                                   |
| Keying to Mating Part          | Yes                                      |
| Material - Metal               | Phosphor Bronze                          |
| Material - Plating Mating      | Gold                                     |
| Material - Plating Termination | Tin                                      |
| Material - Resin               | High Temperature Thermoplastic           |
| PC Tail Length (in)            | 0.127 In                                 |
| PC Tail Length (mm)            | 3.23 mm                                  |
| PCB Locator                    | Yes                                      |
| PCB Retention                  | Yes                                      |
| PCB Thickness Recommended (in) | 0.062 In                                 |
| PCB Thickness Recommended (mm) | 1.57 mm                                  |
| Packaging Type                 | Tray                                     |
| Pitch - Mating Interface (in)  | 0.050 In                                 |
| Pitch - Mating Interface (mm)  | 1.27 mm                                  |
| Pitch - Term. Interface (in)   | 0.050 In                                 |
| Pitch - Term. Interface (mm)   | 1.27 mm                                  |
| Plating min: Mating (µin)      | 2                                        |
| Plating min: Mating (µm)       | 0.05                                     |
| Plating min: Termination (µin) | 150                                      |
| Plating min: Termination (µm)  | 3.81                                     |
| Temperature Range - Operating  | -40°C to +85°C                           |
| Termination Interface: Style   | Through Hole                             |
| <b>Electrical</b>              |                                          |
| Current - Maximum per Contact  | 1A                                       |
| Voltage - Maximum              | 100V AC (RMS)/DC                         |
| Voltage Key                    | OFFSET LEFT                              |



**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**China RoHS**  


**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[71251Series](#)

**Mates With**  
JEDEC MO-172 modules

**Solder Process Data**

Lead-free Process Capability

Wave Capable (TH only)

**Material Info**

**Reference - Drawing Numbers**

Product Specification

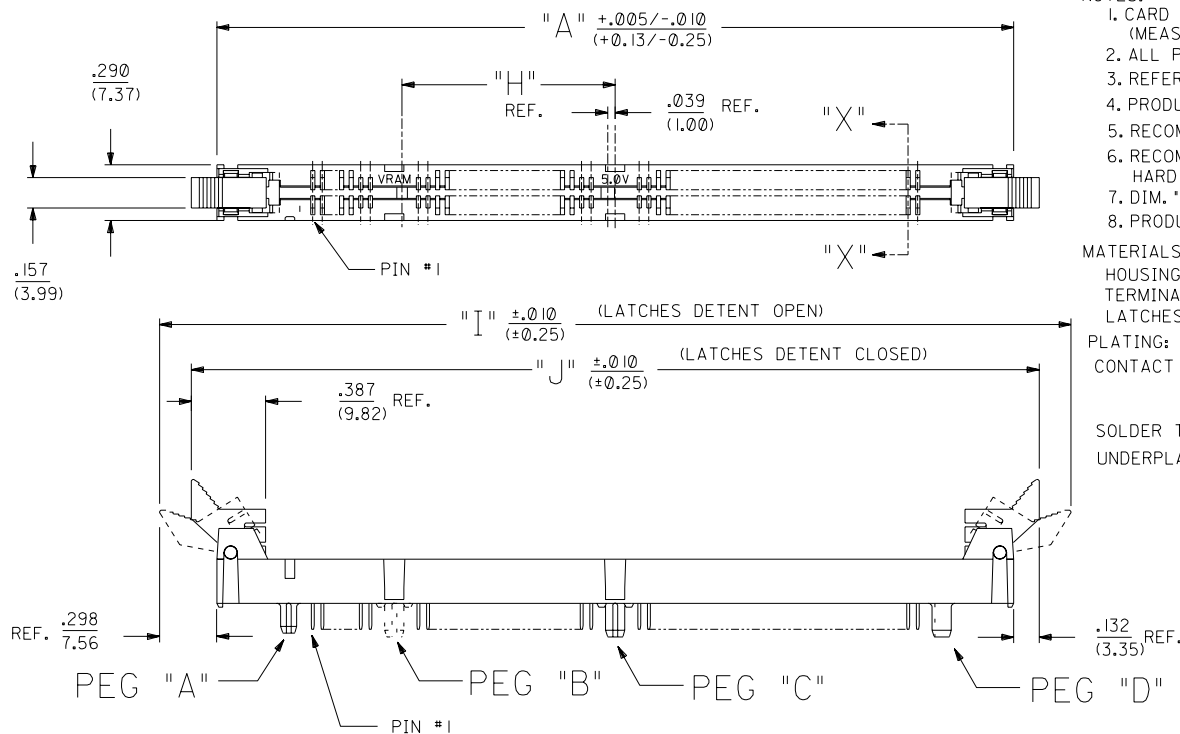
PS-71243-9999

Sales Drawing

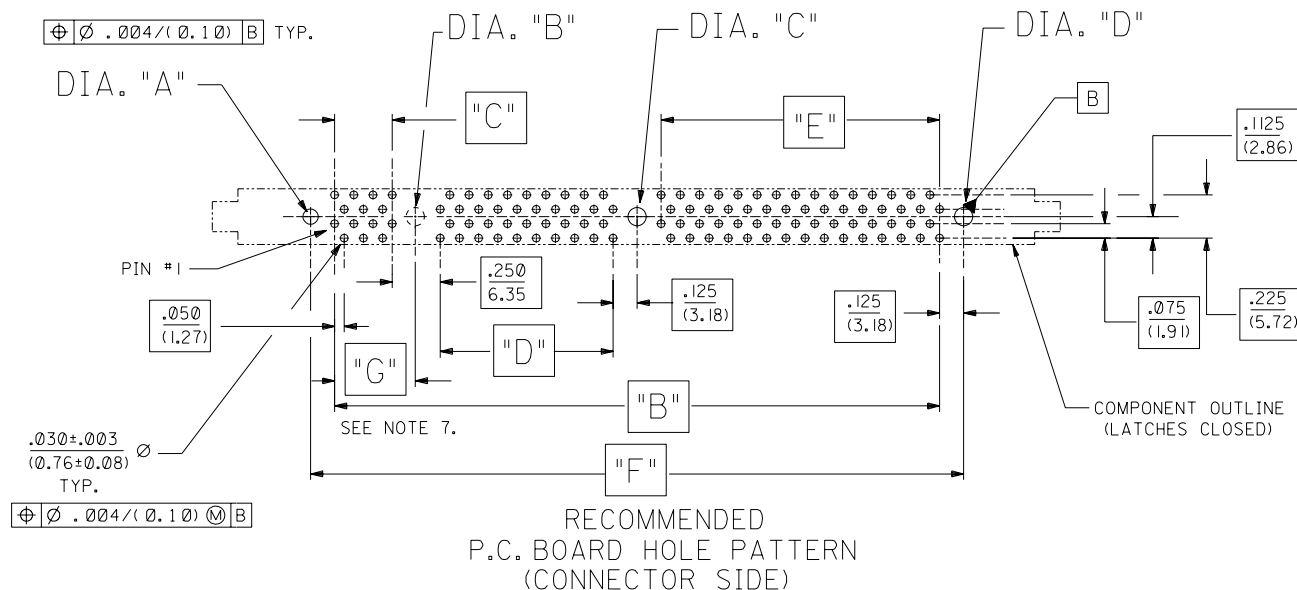
SDA-71251-2\*\*\*

This document was generated on 04/13/2010

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71251-2001 SHOWN



# NOTES:

1. CARD SLOT ACCEPTS .050±.004 (1.27±0.10) MODULE THICKNESS. (MEASURED OVER P.C. PADS).
2. ALL PEGS ARE INTERFERENCE FITS TO PCB UNLESS NOTED ON THE DWG.
3. REFER TO PRODUCT SPEC PS-71243-9999 FOR PERFORMANCE SPECIFICATIONS.
4. PRODUCT IS PACKAGED IN TRAYS.
5. RECOMMENDED MODULE LAYOUT SHALL BE PER JEDEC MO-172.
6. RECOMMENDED PLATING ON MODULE PADS: 30 MICROINCH/(2.0 MICROMETER) MINIMUM HARD GOLD (Au) OVER 79 MICROINCH/(2.0 MICROMETER) MINIMUM NICKEL (Ni).
7. DIM. 'G' APPLIES WHEN PEG IS PRESENT.
8. PRODUCT WILL HAVE DATE CODE STAMPED ON SIDE OF HOUSING.

## MATERIALS:

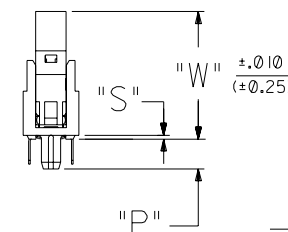
HOUSING - GLASS FILLED LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, COLOR: BLACK.  
 TERMINAL - PHOSPHOR BRONZE  
 LATCHES - GLASS FILLED HIGH TEMPERATURE NYLON, UL 94V-0, COLOR: IVORY.

## PLATING:

CONTACT AREA: GOLD (Au) FLASH: THICKNESS=2-10 MICROINCH/(0.05-0.25 MICROMETER), OVER PALLADIUM-NICKEL (Pd-Ni): THICKNESS=30 MICROINCH/(0.76 MICROMETER) MINIMUM.

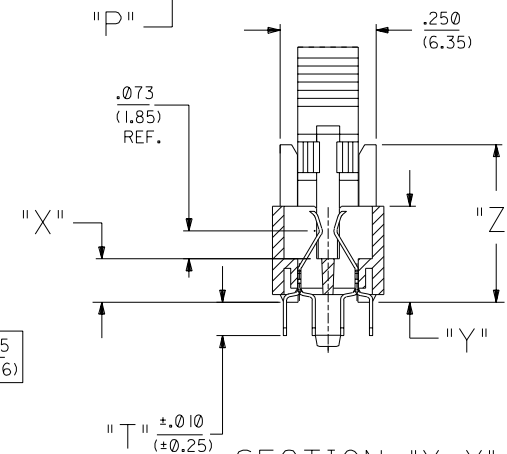
SOLDER TAILS: TIN (Sn): THICKNESS=150 MICROINCH/(3.81 MICROMETER) MINIMUM.

UNDERPLATE: NICKEL (Ni) OVER ENTIRE CONTACT.



## NOTE FOR LEAD FREE CONVERSION:

THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.



## SECTION "X-X"

SCALE 4:1

|    |                                                        |
|----|--------------------------------------------------------|
| E1 | ADD LEAD FREE NOTE ECR# UCP2004-1732 DMORGAN 04/03/09  |
| E  | OBSELETE 1/2 CXT ECR# UDT2000-0847 DMORGAN 00/03/21    |
| D  | CHG Sn-Pb THICKNESS ECR# UDT1999-0454 DMORGAN 99/08/09 |
| C  | REVISED PER ECR# U61133 96-9-25 LAURX                  |
| B  | REVISED PER ECR# U51288 8-4-95 JCL                     |
| A3 | REVISED PER ECR# U51140 5-12-95 JCL                    |
| A2 | REVISED PER ECR# U50965 4-15-95 JCL                    |
| A1 | REVISED PER ECR# U50818 2-15-95 JCL                    |
| A  | RMVD X, REVISED PER ECR# U50517 12-27-94 JCL           |
| 2  | REVISED PER ECR# U50419 11-9-94 JCL                    |

|      |     |      |                                           |
|------|-----|------|-------------------------------------------|
| 2    | E   | I    | 'X' RELEASED PER ECR# U30711 10-13-94 DCB |
| MFG. | SH. | REV. | LTR.                                      |

|                                                             |              |                                                       |          |                           |  |
|-------------------------------------------------------------|--------------|-------------------------------------------------------|----------|---------------------------|--|
| DIMENSIONS SHOWN (METRIC) INCH                              |              | UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2° |          | REVISIONS                 |  |
| 3 PLACE                                                     | ± .005       | INCH                                                  | METRIC   | REVISE ONLY ON CAD SYSTEM |  |
| 2 PLACE                                                     | ± ---        | ± 0.13                                                | ---      |                           |  |
| 1 PLACE                                                     | ---          | ± 0.25                                                | ---      |                           |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS        |              |                                                       |          |                           |  |
| DRWG. BY                                                    | DCB          | CHK'D. BY                                             | SCALE    | 2: 1                      |  |
| FILE NAME                                                   | ST125121.DGN | DATE                                                  | 10/10/94 |                           |  |
| SEE CHART                                                   |              | SDA-71251-2***                                        |          |                           |  |
| MOLX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              | CP                                                    |          |                           |  |

