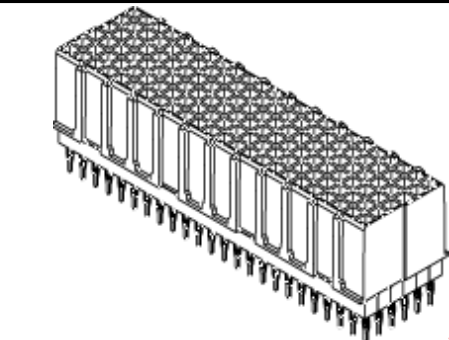


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**Part Number:** [0737801133](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Daughtercard Receptacle, Vertical, Signal Module, 144 Circuits, Mounted Height 13.00mm (.512"), Pin Length 2.50mm (.098"), Solder Tail

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Test Summary \(PDF\)](#)  
[Product Specification PS-73780-999 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)



Series  
image - Reference only

| General                        |                                |
|--------------------------------|--------------------------------|
| Product Family                 | Backplane Connectors           |
| Series                         | <a href="#">73780</a>          |
| Application                    | Daughtercard, Mezzanine        |
| Comments                       | Solder Tail                    |
| Component Type                 | PCB Receptacle                 |
| Overview                       | <a href="#">hdm</a>            |
| Product Name                   | HDM®                           |
| Style                          | N/A                            |
| Physical                       |                                |
| Circuits (Loaded)              | 144                            |
| Circuits (maximum)             | 144                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 250                            |
| First Mate / Last Break        | No                             |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | None                           |
| Material - Metal               | Copper-Nickel-Tin              |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Columns              | 24                             |
| Number of Pairs                | Open Pin Field                 |
| Number of Rows                 | 6                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.098 In                       |
| PC Tail Length (mm)            | 2.50 mm                        |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness Recommended (in) | 0.063 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface (in)  | 0.079 In                       |
| Pitch - Mating Interface (mm)  | 2.00 mm                        |
| Pitch - Term. Interface (in)   | 0.079 In                       |
| Pitch - Term. Interface (mm)   | 2.00 mm                        |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.75                           |
| Plating min: Termination (µin) | 100                            |
| Plating min: Termination (µm)  | 2.5                            |
| Polarized to PCB               | No                             |
| Stackable                      | Yes                            |
| Surface Mount Compatible (SMC) | Yes                            |

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**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**  
[73780Series](#)

**Mates With**  
HDM® Board-to-Board Backplane Header [73642](#) , [73643](#) , [73644](#) , [73942](#) , [73943](#) , [73944](#) , [74349](#) , [74428](#). HDM® Board-to-Board Stacking Header [73769](#) , [73770](#) , [73782](#) , [73783](#) , [73771](#)

Temperature Range - Operating

Termination Interface: Style

-55°C to +105°C

Through Hole

Electrical

Current - Maximum per Contact

Data Rate

Real Signals (per 25mm)

Shielded

Voltage - Maximum

15A, 1A

1.0 Gbps

75

No

250V AC

Solder Process Data

Duration at Max. Process Temperature (seconds)

Lead-free Process Capability

Max. Cycles at Max. Process Temperature

Process Temperature max. C

5

Wave Capable (TH only)

1

260

Material Info

Reference - Drawing Numbers

Product Specification

Sales Drawing

PS-73780-999

SD-73780-004

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This document was generated on 05/14/2010

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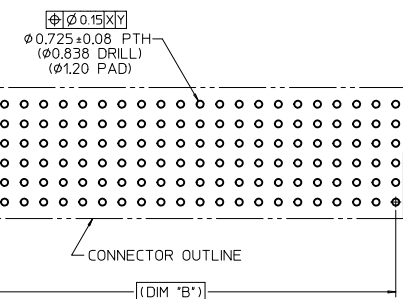


# MATERIAL NUMBER ASSIGNMENT



## NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK
2. FINISH: SELECTIVE GOLD (Au) IN CONTACT AREA, .76 MICROMETER MINIMUM THICKNESS, SELECTIVE TIN (Sn), 2.50 MINIMUM THICKNESS ON SOLDER TAILS, NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73780-999.
4. MARKINGS SHOWN FOR REFERENCE ONLY. SEE MATERIAL NUMBER ASSIGNMENT DIAGRAM FOR CORRECT NUMBER. MARKINGS TO INCLUDE MATERIAL NUMBER AND DATE CODE AND CAN BE LOCATED ANYWHERE ON PART, IN ANY ORIENTATION.
5. 73780-\*\*\*7 AND -\*\*0\* PARTS TO BE PACKAGED IN TUBES PER PK-70873-0872. ALL OTHER PARTS TO BE PACKAGED IN TUBES PER PK-70873-0900.
6. 144-CIRCUIT HDM DAUGHTERCARD STACKING MODULE WITH PRESS-FIT TAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
7. TRUE POSITION OF PC TAILS IS INSPECTED USING GAUGE NUMBER 73727-0014.
8. MARKINGS MAY BE ORIENTED TO EITHER SIDE OF CONNECTOR.



## PCB LAYOUT: COMPONENT SIDE

|                 |              |         |         |         |
|-----------------|--------------|---------|---------|---------|
| 73780-1***      | 144          | 48.17   | 46.00   | 47.6    |
| 73780-0***      | 72           | 24.17   | 22.00   | 23.6    |
| MATERIAL NUMBER | CIRCUIT SIZE | DIM "A" | DIM "B" | DIM "C" |

|                                                                                                                                                            |     |                                        |                                                      |                                                                                                                               |                  |                                                                                       |       |                    |                                                                                                              |                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|-------|--------------------|--------------------------------------------------------------------------------------------------------------|---------------------|--|
| UPDATE TO S.T. ONLY<br>IEC NO: UCP2010-1860<br>DRAWN: J. MELTON 2010/01/22<br>CHECKED: S. DANIELLEY 05/07/08<br>APPROVED: MILLER 2010/02/08<br>DESCRIPTION | REV | QUALITY SYMBOLS                        | GENERAL TOLERANCES (UNLESS SPECIFIED)                |                                                                                                                               | DIMENSION STYLE  |                                                                                       | SCALE | DESIGN UNITS       |  THIRD ANGLE PROJECTION |                     |  |
|                                                                                                                                                            |     | $\nabla=0$<br>$\nabla=0$<br>$\nabla=0$ | <div><div>mm</div><div>INCH</div></div>              |                                                                                                                               | MM ONLY          |                                                                                       | 4:1   | METRIC             |                                                                                                              |                     |  |
|                                                                                                                                                            |     |                                        | 4 PLACES $\pm$ <div>----</div> $\pm$ <div>----</div> |                                                                                                                               | DRAWN BY DATE    |                                                                                       | TITLE |                    |                                                                                                              |                     |  |
|                                                                                                                                                            |     |                                        | 3 PLACES $\pm$ <div>----</div> $\pm$ <div>----</div> |                                                                                                                               | MIBARRA 05/07/08 |                                                                                       |       |                    |                                                                                                              |                     |  |
| 2 PLACES $\pm$ 0.05 $\pm$ <div>----</div>                                                                                                                  |     | CHECKED BY DATE                        |                                                      | SALES ASSEMBLY, HDM DAUGHTERCARD STACKING MODULE, SOLDER TAIL                                                                 |                  |                                                                                       |       |                    |                                                                                                              |                     |  |
| 1 PLACE $\pm$ 0.10 $\pm$ <div>----</div>                                                                                                                   |     | BSMART 05/07/08                        |                                                      |                                                                                                                               |                  |                                                                                       |       |                    |                                                                                                              |                     |  |
| ANGULAR $\pm$ 2 °                                                                                                                                          |     | APPROVED BY DATE                       |                                                      | MOLEX INCORPORATED                                                                                                            |                  |  |       | MOLEX INCORPORATED |                                                                                                              |                     |  |
|                                                                                                                                                            |     | MILLER 2010/02/08                      |                                                      |                                                                                                                               |                  |                                                                                       |       |                    |                                                                                                              |                     |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                                       |     | MATERIAL NO.                           |                                                      | SEE TABLE                                                                                                                     |                  | DOCUMENT NO.                                                                          |       | SD-73780-004       |                                                                                                              |                     |  |
|                                                                                                                                                            |     | SIZE D                                 |                                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                  |                                                                                       |       |                    |                                                                                                              | SHEET NO.<br>1 OF 1 |  |

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