

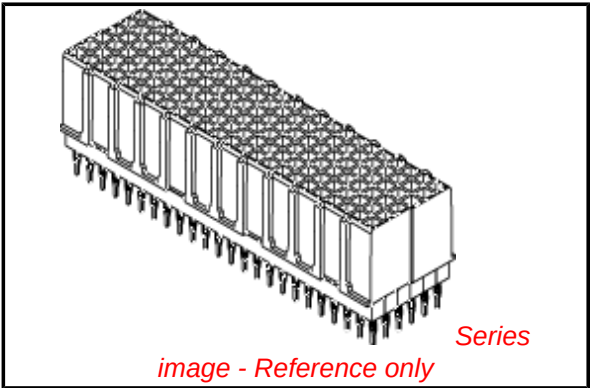
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**Part Number:** [0737803163](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Daughtercard Receptacle, Vertical, Signal Module, 144 Circuits, Mounted Height 13.00mm (.512"), Pin Length 4.00mm (.157"), Press Fit

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

| General        |                         |
|----------------|-------------------------|
| Product Family | Backplane Connectors    |
| Series         | <a href="#">73780</a>   |
| Application    | Daughtercard, Mezzanine |
| Comments       | Press Fit 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-Lead                       |
| 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)            | 0.157 In                       |
| PC Tail Length (mm)            | 4.00 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) | 35                             |
| Plating min: Termination (µm)  | 0.88                           |
| Polarized to PCB               | No                             |
| Stackable                      | Yes                            |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -55°C to +105°C                |



**EU RoHS**  
**RoHS Compliant by Exemption**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**China RoHS**

Pb

**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](#)

|                              |                              |
|------------------------------|------------------------------|
| Termination Interface: Style | Through Hole - Compliant Pin |
|------------------------------|------------------------------|

**Electrical**

|                               |          |
|-------------------------------|----------|
| Current - Maximum per Contact | 15A, 1A  |
| Data Rate                     | 1.0 Gbps |
| Real Signals (per 25mm)       | 75       |
| Shielded                      | No       |
| Voltage - Maximum             | 250V AC  |

**Material Info**

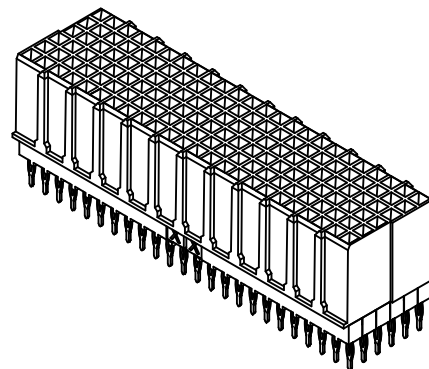
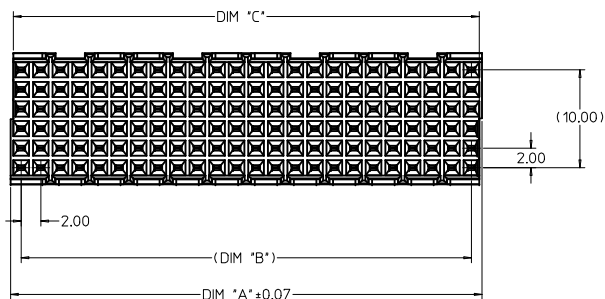
**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-73780-999 |
| Sales Drawing         | SD-73780-001 |

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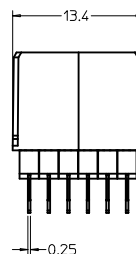
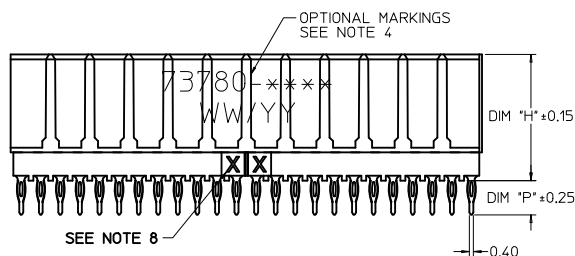
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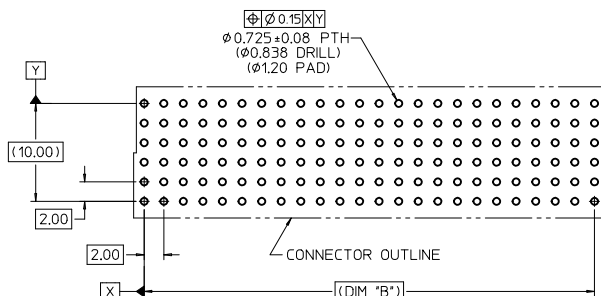
### MATERIAL NUMBER ASSIGNMENT

|                            |          |
|----------------------------|----------|
| 7 3 7 8 0 - * * *          | DIM "H"  |
| 2 = 72 CKT PRESS-FIT       | 3 = 13.0 |
| 3 = 144 CKT PRESS-FIT      | 4 = 14.0 |
|                            | 5 = 15.0 |
|                            | 6 = 16.0 |
|                            | 7 = 17.0 |
| 1 = NO MARKINGS            | DIM "P"  |
| 2 = MARKINGS               | 4 = 3.00 |
| 8 = NO MARKINGS (LEADFREE) | 5 = 3.50 |
| 9 = MARKINGS (LEADFREE)    | 6 = 4.00 |



### NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK
2. FINISH: SELECTIVE GOLD (Au) IN CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) OR MATTE TIN (Sn) ON 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 ORIENTATED TOWARDS EITHER SIDE OF CONNECTOR.



PCB LAYOUT: COMPONENT SIDE

|                 |              |         |         |         |
|-----------------|--------------|---------|---------|---------|
| 73780-3***      | 144          | 48.17   | 46.00   | 47.6    |
| 73780-2***      | 72           | 24.17   | 22.00   | 23.6    |
| MATERIAL NUMBER | CIRCUIT SIZE | DIM "A" | DIM "B" | DIM "C" |

|                                                                                                                                                                     |  |                                      |             |                                                      |  |                   |  |                                                                                                                               |              |                        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|-------------|------------------------------------------------------|--|-------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|--|
| UPDATE TO PF ONLY<br>EC NO: UCP2010-1860<br>DRAWN BY: MELTON<br>CHKD BY: DANIELLEY<br>APPROVED BY: MILLER<br>DATE: 2010/01/22<br>DATE: 97/04/24<br>DATE: 2010/02/08 |  | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE   |  | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
|                                                                                                                                                                     |  |                                      |             | mm INCH                                              |  | MM ONLY           |  | 4:1                                                                                                                           | METRIC       |                        |  |
|                                                                                                                                                                     |  |                                      |             | DRAWN BY DATE                                        |  | TITLE             |  | SALES ASSEMBLY, HDM DAUGHTERCARD STACKING MODULE, PRESS-FIT ONLY<br>MOLEX INCORPORATED                                        |              |                        |  |
|                                                                                                                                                                     |  |                                      |             | REED 97/04/24                                        |  |                   |  |                                                                                                                               |              |                        |  |
|                                                                                                                                                                     |  |                                      |             | 4 PLACES ± --- ± ---                                 |  | CHECKED BY DATE   |  | MOLEX INCORPORATED                                                                                                            |              |                        |  |
|                                                                                                                                                                     |  |                                      |             | 3 PLACES ± --- ± ---                                 |  | BINGHAM 97/04/24  |  |                                                                                                                               |              |                        |  |
|                                                                                                                                                                     |  |                                      |             | 2 PLACES ± 0.05 ± ---                                |  | APPROVED BY DATE  |  | SD-73780-001                                                                                                                  |              |                        |  |
|                                                                                                                                                                     |  |                                      |             | 1 PLACE ± 0.10 ± ---                                 |  | MILLER 2010/02/08 |  |                                                                                                                               |              |                        |  |
|                                                                                                                                                                     |  |                                      |             | ANGULAR ± 2 °                                        |  | MATERIAL NO.      |  | DOCUMENT NO.                                                                                                                  |              | SHEET NO.              |  |
|                                                                                                                                                                     |  |                                      |             | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SEE TABLE         |  |                                                                                                                               |              | 1 OF 1                 |  |
|                                                                                                                                                                     |  |                                      |             |                                                      |  | SIZE D            |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |  |

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