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**Part Number:** [0743001144](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Daughtercard Receptacle, Vertical, Signal Module, with Guide, 144 Circuits, Mounted Height 14.00mm (.551"), Press-Fit Pin Length 3.00mm (.118"), Lead-Free

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

| General                        |                                |
|--------------------------------|--------------------------------|
| Product Family                 | Backplane Connectors           |
| Series                         | <a href="#">74300</a>          |
| Application                    | Daughtercard, Mezzanine        |
| 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           | Yes                            |
| Keying to Mating Part          | None                           |
| Material - Metal               | Copper-Nickel-Tin              |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Matte 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)            | 0.118 In                       |
| PC Tail Length (mm)            | 3.00 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)       | 0.76                           |
| Plating min: Termination (µin) | 100                            |
| Plating min: Termination (µm)  | 2.50                           |
| Polarized to PCB               | No                             |
| Stackable                      | Yes                            |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -55°C to +105°C                |
| Termination Interface: Style   | Through Hole - Compliant Pin   |



image - Reference only

Series

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Halogen-Free**

**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**  
[74300Series](#)

**Mates With**  
HDM® Board-to-Board Backplane Header  
[73642](#) , [73643](#) , [73644](#) , [74349](#) , [74428](#) ,  
[73769](#) , [73781](#) , [73770](#) , [73782](#) , [73783](#) ,  
[73771](#)

**Electrical**

|                               |          |
|-------------------------------|----------|
| Current - Maximum per Contact | 1A       |
| Data Rate                     | 1.0 Gbps |
| Real Signals (per 25mm)       | 76       |
| Shielded                      | Yes      |
| Voltage - Maximum             | 250V AC  |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 260                    |

**Material Info**

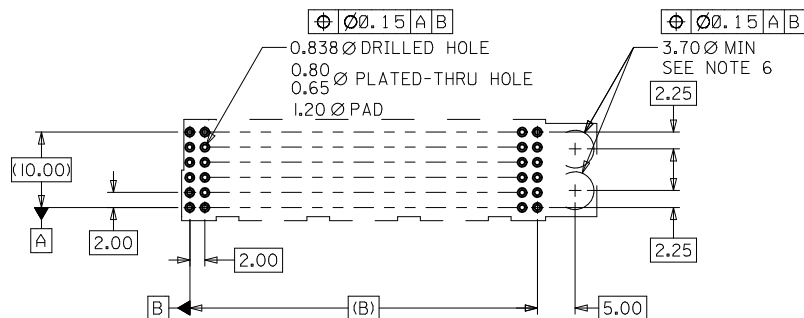
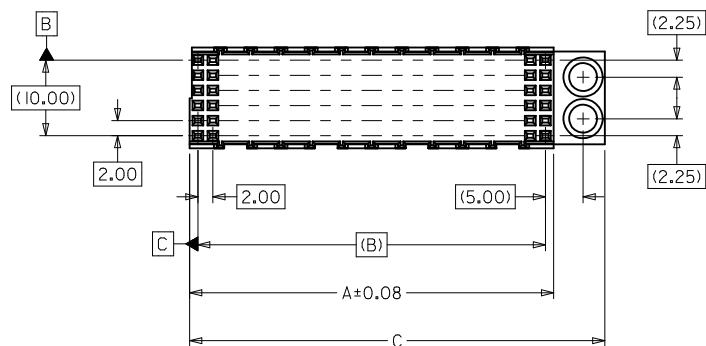
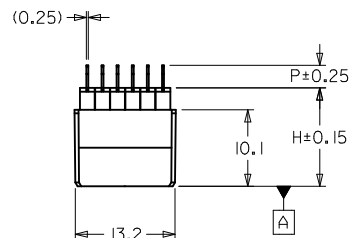
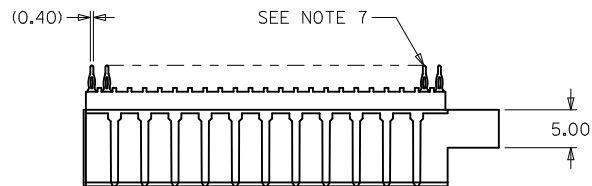
**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-73780-999 |
| Sales Drawing         | SD-74300-004 |

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PCB LAYOUT: COMPONENT SIDE

# NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, 94V-0, COLOR: BLACK  
TERMINALS - COPPER ALLOY
2. FINISH: GOLD (Au) .76 MICROMETER MINIMUM THICKNESS IN CONTACT AREA; SELECTIVE TIN (Sn) 2.50 MINIMUM THICKNESS ON SOLDER TAILS, .88 MINIMUM THICKNESS ON PRESS-FIT TAILS, NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73780-999.
4. 144-CKT DAUGHTERCARD STACKING MODULE SHOWN FOR ILLUSTRATION PURPOSES ONLY. SEE CHART FOR TABULATED DIMENSIONS.
5. 74300-\*\*\*7 PARTS TO BE PACKAGED IN TUBES PER PK-70873-0872. ALL OTHER PARTS TO BE PACKAGED IN TUBES PER PK-70873-0900.
6. DEPENDING ON APPLICATION, THIS HOLE MAY BE NEEDED FOR CLEARANCE OF BACKPLANE GUIDE PIN. LOCATION OF HOLE WILL DEPEND ON LOCATION OF GUIDE PIN.
7. TRUE POSITION OF PC TAILS IS INSPECTED USING GAUGE NUMBER 73727-0014.

## MATERIAL NUMBER ASSIGNMENT

74300 - \* | \* \*

0 = 72-CKT SOLDER TAIL  
1 = 144-CKT SOLDER TAIL  
7 = 72-CKT PRESS-FIT  
8 = 144-CKT PRESS-FIT

DIM "P"  
2 = 2.00  
3 = 2.50  
\*4 = 3.00  
\*5 = 3.50  
\*6 = 4.00

\*PRESS-FIT AVAILABLE IN THESE TAIL LENGTHS ONLY

DIM "H"  
3 = 13.0  
4 = 14.0  
5 = 15.0  
6 = 16.0  
7 = 17.0

|                  |              |       |       |       |
|------------------|--------------|-------|-------|-------|
| 74300-11**/-81** | 144          | 48.17 | 46.00 | 54.95 |
| 74300-01**/-71** | 72           | 24.17 | 22.00 | 30.95 |
| MATERIAL NUMBER  | CIRCUIT SIZE | DIM A | DIM B | DIM C |

UPDATE TO L.F. ONLY  
EC NO: UCP2010-1860  
DRWN: JELTON 2010/01/25  
CHKD: SDANIELLEY 05/07/07  
APPR: SMILLER 2010/02/08

QUALITY SYMBOLS  
▽=0  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)  
mm INCH  
4 PLACES ± --- ± ---  
3 PLACES ± --- ± ---  
2 PLACES ± 0.05 ± ---  
1 PLACE ± 0.10 ± ---  
ANGULAR ± 1/2°  
DRAFT WHERE APPLICABLE  
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY  
DRAWN BY DATE  
MIBARRA 05/07/07  
CHECKED BY DATE  
BSMART 05/07/07  
APPROVED BY DATE  
SMILLER 2010/02/08  
MATERIAL NO.  
SEE TABLE  
SIZE C

SCALE  
DESIGN UNITS  
METRIC  
THIRD ANGLE PROJECTION  
TITLE  
SALES ASSY, HDM PB FREE  
DAUGHTERCARD STACKING  
MODULE, GUIDE OPTION  
MOLEX INCORPORATED  
DOCUMENT NO.  
SD-74300-004  
SHEET NO.  
1 OF 1  
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