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Part Number:

0737801224

Status:

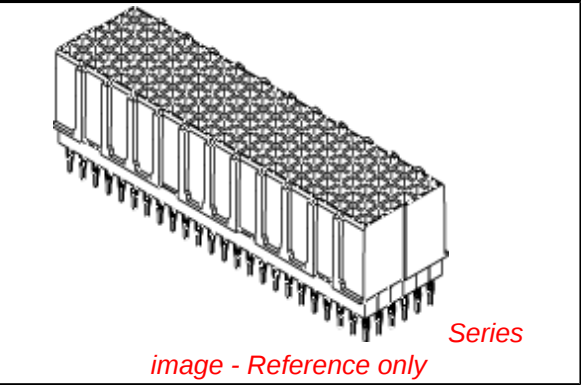
Active

Overview:

[hdm](#)

Description:

2.00mm (.079") Pitch HDM® Board-to-Board Daughtercard Receptacle, Vertical, Signal Module, 144 Circuits, Mounted Height 14.00mm (.551"), 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 \(PDF\)](#)

| General                        |                                |
|--------------------------------|--------------------------------|
| Product Family                 | Backplane Connectors           |
| Series                         | 73780                          |
| 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)            | 0.079 In                       |
| PC Tail Length (mm)            | 2.00 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) | 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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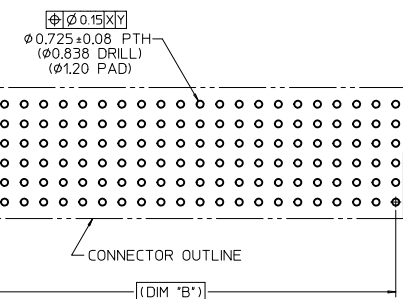


# MATERIAL NUMBER ASSIGNMENT



## 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" |

|                                |  |                 |  |                                                      |  |                    |  |                                                                                                                               |  |                                                               |  |                        |  |
|--------------------------------|--|-----------------|--|------------------------------------------------------|--|--------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|--|------------------------|--|
| <b>UPDATE TO S.T. ONLY</b>     |  | QUALITY SYMBOLS |  | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE    |  | SCALE                                                                                                                         |  | DESIGN UNITS                                                  |  | THIRD ANGLE PROJECTION |  |
| IEC NO: UCP2010-1860           |  |                 |  |                                                      |  | MM ONLY            |  | 4:1                                                                                                                           |  | METRIC                                                        |  |                        |  |
| DRAWN: J. MELTON 2010/01/22    |  | ▽=0             |  | mm INCH                                              |  | DRAWN BY MIBARRA   |  | DATE 05/07/08                                                                                                                 |  | SALES ASSEMBLY, HDM DAUGHTERCARD STACKING MODULE, SOLDER TAIL |  | MOLEX INCORPORATED     |  |
| CHECKED: S. DANIELLEY 05/07/08 |  | ▽=0             |  | 4 PLACES ± ± ± ±                                     |  | CHECKED BY BSMART  |  | DATE 05/07/08                                                                                                                 |  |                                                               |  |                        |  |
| APPROVED: MILLER 2010/02/08    |  | ▽=0             |  | 3 PLACES ± ± ± ±                                     |  | APPROVED BY MILLER |  | DATE 2010/02/08                                                                                                               |  |                                                               |  |                        |  |
|                                |  |                 |  | 2 PLACES ± 0.05 ± ± ±                                |  |                    |  |                                                                                                                               |  |                                                               |  |                        |  |
|                                |  |                 |  | 1 PLACE ± 0.10 ± ± ±                                 |  |                    |  |                                                                                                                               |  |                                                               |  |                        |  |
|                                |  |                 |  | ANGULAR ± 2 °                                        |  |                    |  |                                                                                                                               |  |                                                               |  |                        |  |
|                                |  |                 |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | MATERIAL NO.       |  | DOCUMENT NO.                                                                                                                  |  |                                                               |  | SHEET NO.              |  |
|                                |  |                 |  |                                                      |  | SEE TABLE          |  | SD-73780-004                                                                                                                  |  |                                                               |  | 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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