

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

**Part Number:** [0738101207](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Midplane Header, Vertical SMC, Press-Fit, Double End Option, Slide On Housing, 144 Circuits

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family Backplane Connectors  
Series [73810](#)  
Application Midplane  
Comments Polar/Guide Version  
Component Type PCB Header  
Overview [hdm](#)  
Product Name HDM®  
Style N/A

**Physical**

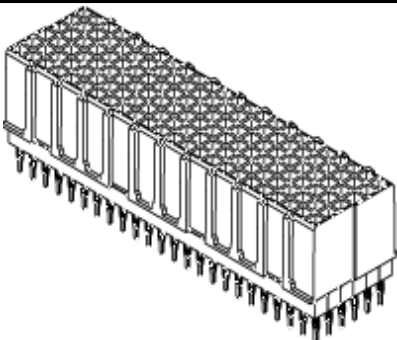
Circuits (Loaded) N/A  
Circuits (maximum) 144  
Color - Resin Black  
Durability (mating cycles max) 250  
First Mate / Last Break No  
Flammability 94V-0  
Guide to Mating Part Yes  
Keying to Mating Part Yes  
Material - Metal Stainless Steel  
Material - Resin High Temperature Thermoplastic  
Number of Columns 24  
Number of Pairs Open Pin Field  
Number of Rows 6  
Orientation Vertical  
PC Tail Length (in) 0.000 In  
PC Tail Length (mm) 0.00 mm  
PCB Locator No  
PCB Retention None  
Packaging Type Tube  
Pitch - Mating Interface (in) 0.079 In  
Pitch - Mating Interface (mm) 2.00 mm  
Polarized to PCB N/A  
Surface Mount Compatible (SMC) Yes  
Temperature Range - Operating -55°C to +105°C

**Electrical**

Current - Maximum per Contact 1A  
Data Rate 1.0 Gbps  
Real Signals (per 25mm) 0  
Voltage - Maximum 250V AC

**Solder Process Data**

Lead-free Process Capability Reflow Capable (SMT only)



*Series*  
*image - Reference only*

**EU RoHS**

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

**China RoHS**



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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**

[73810Series](#)

**Mates With**

[73632](#) HDM PLUS® Board-to-Board  
Daughtercard Receptacle. [73780](#) HDM®  
Board-to-Board Daughtercard Receptacle

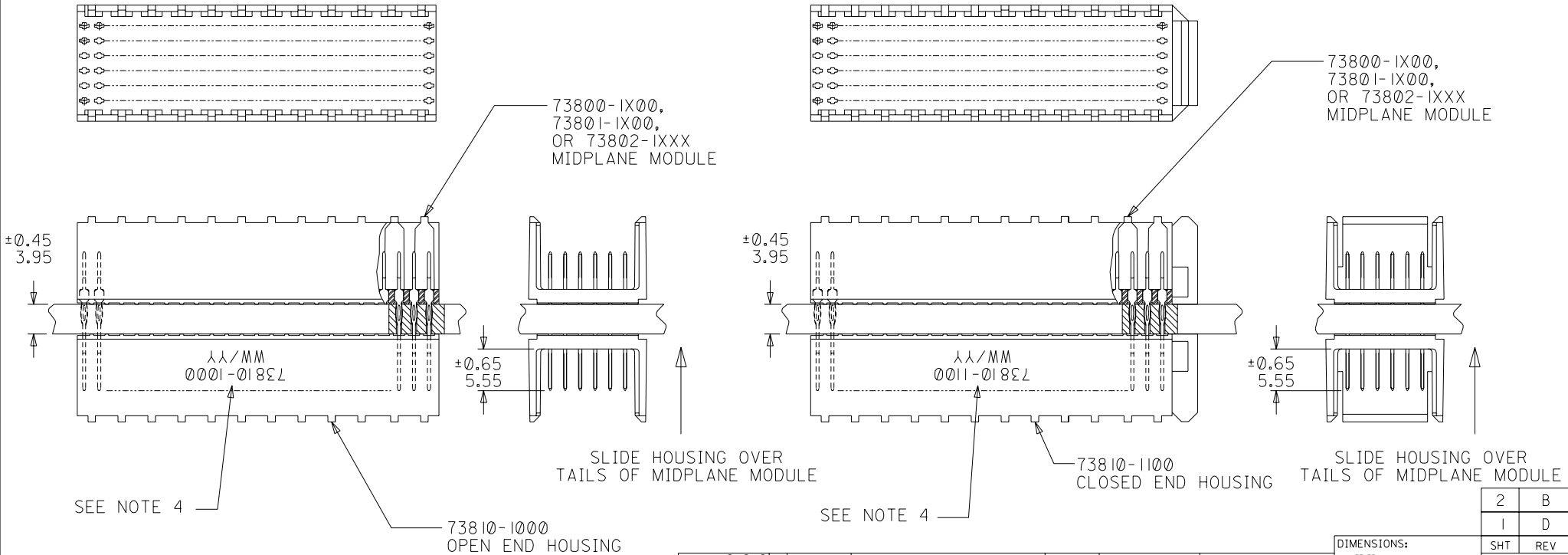
|                                                                    |              |
|--------------------------------------------------------------------|--------------|
| Process Temperature max. C                                         | 260          |
| <b>Material Info</b>                                               |              |
| <b>Reference - Drawing Numbers</b>                                 |              |
| Sales Drawing                                                      | SD-73810-001 |
| HDM and High Density Metric are trademarks of Amphenol Corporation |              |

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NOTES:

- 1. HOUSING MATERIALS: LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK.
- 2. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73670-9999.
- 3. SEE DRAWINGS SD-73800-001, SD-73801-001, AND SD-73802-001 FOR DIMENSIONAL INFORMATION.
- 4. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE, APPROXIMATELY WHERE SHOWN.
- 5. PARTS PACKAGED PER PK-70873-0818.



|                                                         |                                                                                                   |             |                                                                                                       |                                                                                                                                   |     |                                        |                                                                                      |                                                                                                                 |                                     |                                     |                                                |                       |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------|-----------------------|
| REVISED                                                 | EC NO. UCP2003-2260<br>DRWN: THOMAS 03/04/25<br>CHK: BINGHAM 03/04/25<br>APPR: REED 03/04/25<br>D | DESCRIPTION | QUALITY SYMBOLS                                                                                       | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)                                                                                         |     | SCALE<br>2 : 1                         | DESIGN UNITS<br><input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH |  THIRD ANGLE<br>PROJECTION | <input type="checkbox"/> mm<br>INCH | <input type="checkbox"/> INCH<br>mm | <input checked="" type="checkbox"/> mm<br>ONLY | REVISE ON<br>CAD ONLY |
|                                                         |                                                                                                   |             | MAJOR<br> = 0    |                                                                                                                                   | mm  | INCH                                   | DRAWN BY & DATE<br>JBINGHAM 97/06/19                                                 | TITLE: SALES ASSEMBLY, HDM<br>DOUBLE-END MIDPLANE, 144 POS.<br>SLIDE-ON HOUSING<br>MOLEX MOLEX INCORPORATED     |                                     |                                     |                                                |                       |
|                                                         |                                                                                                   |             | CRITICAL<br> = 0 | 4 PLACES                                                                                                                          | ±0. | ±.                                     | CHECKED BY & DATE<br>SREED 97/06/19                                                  |                                                                                                                 |                                     |                                     |                                                |                       |
|                                                         |                                                                                                   |             | 2 PLACES                                                                                              | ±0.05                                                                                                                             | ±.  | APPROVED BY & DATE<br>CBIXLER 97/06/19 |                                                                                      |                                                                                                                 |                                     |                                     |                                                |                       |
|                                                         |                                                                                                   |             | 1 PLACE                                                                                               | ±0.10                                                                                                                             | ±.  | ANGULAR: ± 1/2°                        | CAD FILENAME<br>S73810X1.DGN                                                         | MATERIAL NO.<br>SEE CHART                                                                                       | DRAWING NO.<br>SD-73810-001         | SHEET NO.<br>1 OF 2                 |                                                |                       |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS |                                                                                                   |             |                                                                                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |     |                                        |                                                                                      |                                                                                                                 |                                     |                                     |                                                | SIZE<br>B             |

10 9 8 7 6 5 4 3 2 73810

MATERIAL NUMBER ASSIGNMENT

73810- \* \* \* \*

I = 144-CIRCUIT

0 = OPEN END VERSION  
1 = CLOSED END VERSION  
2 = POLAR/GUIDE VERSION

73800-1X00,  
73801-1X00,  
OR 73802-1XXX  
MIDPLANE MODULE



LOCATION B

LOCATION A

| NUMBER | GUIDE POST LOCATION | POLAR KEY POSITION |
|--------|---------------------|--------------------|
| 00     | N/A                 | N/A                |
| 01     | B                   | A                  |
| 02     | A                   | A                  |
| 03     | B                   | B                  |
| 04     | A                   | B                  |
| 05     | B                   | C                  |
| 06     | A                   | C                  |
| 07     | B                   | D                  |
| 08     | A                   | D                  |
| 09     | B                   | E                  |
| 10     | A                   | E                  |
| 11     | B                   | F                  |
| 12     | A                   | F                  |
| 13     | B                   | G                  |
| 14     | A                   | G                  |
| 15     | B                   | H                  |
| 16     | A                   | H                  |
| 17     | B                   | N/A                |
| 18     | A                   | N/A                |



SLIDE HOUSING OVER  
TAILS OF MIDPLANE MODULE

SEE NOTE 5

73810-12XX  
POLAR/GUIDE HOUSING

SEE SHEET 1  
EC NO: UDT2000-0443  
DRWN: JBINGHAM 99/11/04  
CHK: SREED 99/11/04  
APPR: CBIXLER 99/11/04  
REV B

DESCRIPTION  
MAJOR  
CRITICAL  
REV

QUALITY SYMBOLS  
MAJOR  
CRITICAL

GENERAL TOLERANCES:  
(UNLESS SPECIFIED)  
mm INCH  
4 PLACES ±0. mm ±.  
3 PLACES ±0. mm ±.  
2 PLACES ±0.05 mm ±.  
1 PLACE ±0.10 mm ±.  
ANGULAR: ± 1/2°  
DRAFT WHERE APPLICABLE MUST  
REMAIN WITHIN DIMENSIONS

SCALE  
2 : 1  
DESIGN UNITS  
mm INCH  
DRAWN BY & DATE  
JBINGHAM 97/06/19  
CHECKED BY & DATE  
SREED 97/06/19  
APPROVED BY & DATE  
CBIXLER 97/06/19  
CAD FILENAME  
S73810X2.DGN  
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
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DIMENSIONS:  
mm INCH mm INCH mm ONLY  
THIRD ANGLE  
PROJECTION  
TITLE: SALES ASSEMBLY, HDM  
DOUBLE-END MIDPLANE, 144 POS.  
SLIDE-ON HOUSING  
MATERIAL NO.  
DRAWING NO.  
SHEET NO.  
2

SHT  
REV  
REVISE ON  
CAD ONLY