

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0749801012

Status:

Active

Overview:

vhdm\_\_hsd

Description:

2.00mm (.079") Pitch 6-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Pin End Version, 40 Circuits, Pin Length 6.25mm (.246")

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

Backplane Connectors

Series

74980

Application

Backplane

Application Tooling Documents

<a href="http://www.molex.com/pdm\_docs/ats/TM-622010999.pdf">Tooling Manual</a>

Comments

Keying Position A

Component Type

PCB Header

Overview

vhdm\_\_hsd

Product Name

VHDM-HSD™

Style

N/A

Physical

Circuits (Loaded)

40

Circuits (maximum)

40

Color - Resin

Black

Durability (mating cycles max)

200

First Mate / Last Break

No

Flammability

94V-0

Guide to Mating Part

Yes

Keying to Mating Part

Yes

Material - Metal

Copper-Nickel-Silicon, High Performance Alloy (HPA), Stainless Steel

Material - Plating Mating

Gold

Material - Plating Termination

Tin-Lead

Material - Resin

High Temperature Thermoplastic

Number of Columns

10

Number of Pairs

Open Pin Field

Number of Rows

6

Orientation

Vertical

PCB Retention

None

PCB Thickness Recommended (in)

0.070 In

PCB Thickness Recommended (mm)

1.80 mm

Packaging Type

Tube

Pitch - Mating Interface (in)

0.079 In

Pitch - Mating Interface (mm)

2.00 mm

Plating min: Mating (µin)

30

Plating min: Mating (µm)

0.75

Plating min: Termination (µin)

30

Plating min: Termination (µm)

0.75

Polarized to PCB

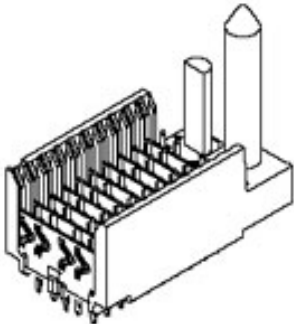
Yes

Stackable

Yes

Surface Mount Compatible (SMC)

Yes



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

74980Series

Mates With

74880 VHDM\HSD Daughtercard

Use With

Daughtercard Modules

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

| Description                                                | Product #  |
|------------------------------------------------------------|------------|
| VHDM® Signal Pin                                           | 0622015700 |
| Insertor Repair Tool                                       |            |
| VHDM-HSD™ Signal Header, 6 Row by 10 Wide, 20.00mm (.787") | 0622020216 |

|                               |                              |
|-------------------------------|------------------------------|
| Temperature Range - Operating | -55°C to +105°C              |
| Termination Interface: Style  | Through Hole - Compliant Pin |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 1A               |
| Data Rate                     | 5.0 Gbps         |
| Real Signals (per 25mm)       | 48               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

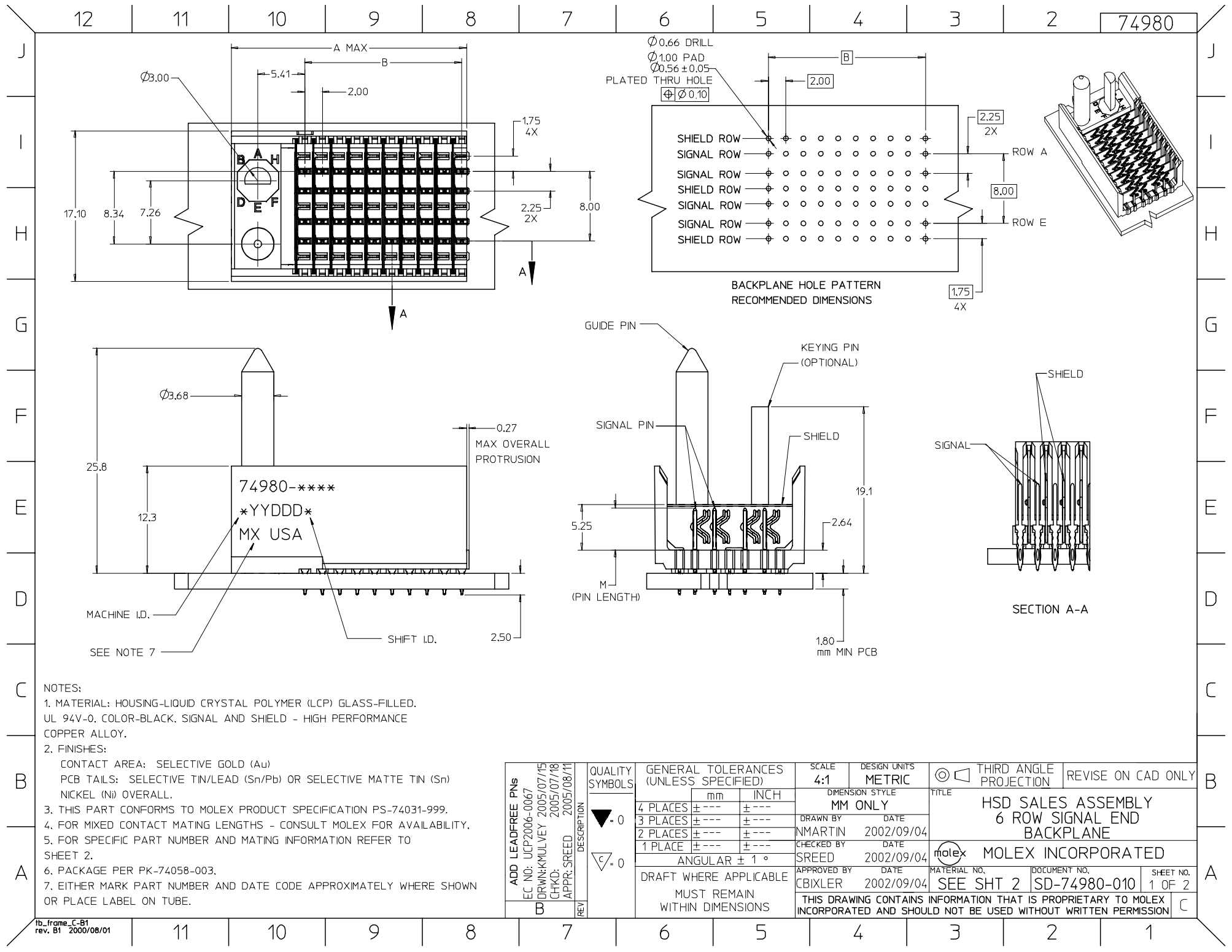
**Reference - Drawing Numbers**

|               |              |
|---------------|--------------|
| Sales Drawing | SD-74980-010 |
|---------------|--------------|

VHDM-HSD is a trademark of Amphenol Corporation

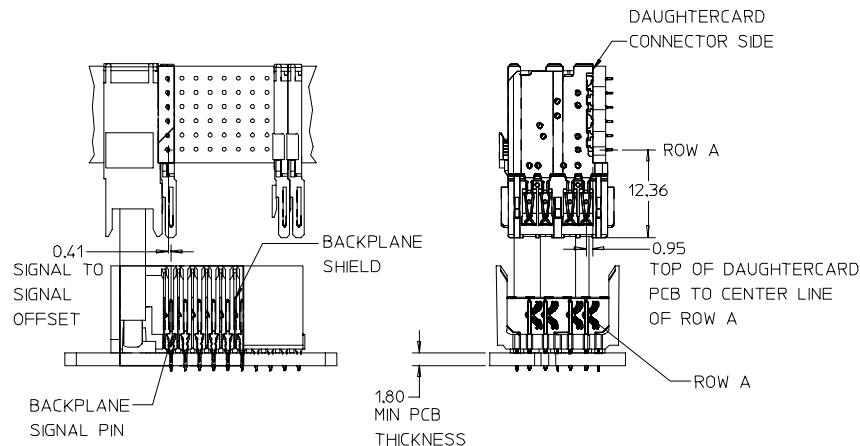
This document was generated on 05/28/2010

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



|                                                                                                                    |                 |             |                                       |       |              |                            |                        |                                                                                        |                    |  |
|--------------------------------------------------------------------------------------------------------------------|-----------------|-------------|---------------------------------------|-------|--------------|----------------------------|------------------------|----------------------------------------------------------------------------------------|--------------------|--|
| ADD LEADFREE PINS<br>EC NO: UCP2006-0067<br>DRWN: KMULVEY 2005/07/15<br>CHKD: 2005/07/18<br>APPR: SREED 2005/08/11 | QUALITY SYMBOLS | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |       | SCALE<br>4:1 | DESIGN UNITS<br>METRIC     | THIRD ANGLE PROJECTION |                                                                                        | REVISE ON CAD ONLY |  |
|                                                                                                                    |                 |             |                                       | mm    | INCH         | DIMENSION STYLE<br>MM ONLY |                        | TITLE<br>HSD SALES ASSEMBLY<br>6 ROW SIGNAL END<br>BACKPLANE<br><br>MOLEX INCORPORATED |                    |  |
|                                                                                                                    |                 |             | 4 PLACES                              | ± --- | ± ---        | DRAWN BY<br>NMARTIN        | DATE<br>2002/09/04     |                                                                                        |                    |  |
|                                                                                                                    |                 |             | 3 PLACES                              | ± --- | ± ---        | CHECKED BY<br>SREED        | DATE<br>2002/09/04     |                                                                                        |                    |  |
|                                                                                                                    |                 |             | 2 PLACES                              | ± --- | ± ---        | APPROVED BY<br>CBIXLER     | DATE<br>2002/09/04     |                                                                                        |                    |  |
|                                                                                                                    |                 |             | 1 PLACE                               | ± --- | ± ---        | MATERIAL NO.<br>SEE SHT 2  |                        |                                                                                        |                    |  |
|                                                                                                                    |                 |             | ANGULAR ± 1 °                         |       |              |                            |                        |                                                                                        |                    |  |
|                                                                                                                    |                 |             | DRAFT WHERE APPLICABLE                |       |              |                            |                        |                                                                                        |                    |  |
|                                                                                                                    |                 |             | MUST REMAIN WITHIN DIMENSIONS         |       |              |                            |                        |                                                                                        |                    |  |
|                                                                                                                    |                 |             |                                       |       |              |                            |                        |                                                                                        |                    |  |
|                                                                                                                    |                 |             |                                       |       |              |                            |                        |                                                                                        |                    |  |

12 11 10 9 8 7 6 5 4 3 2 74980



74980-\*\*\*\*  
NUMBER OF COLUMNS/PLATING  
10 = 10 COLUMN TIN/LEAD  
25 = 25 COLUMN TIN/LEAD  
90 = 10 COLUMN MATTE TIN  
85 = 25 COLUMN MATTE TIN

SIGNAL PIN  
LENGTH (mm)  
1 & 6 = 4.75  
2 & 7 = 6.25  
3 & 8 = 4.25  
4 & 9 = 5.15

| P/N<br>74980-( )          | 0 | A | B | C | D | E | F | G | H |
|---------------------------|---|---|---|---|---|---|---|---|---|
| KEYING PIN<br>ORIENTATION |   |   |   |   |   |   |   |   |   |

| PART<br>NUMBER | COLUMN | NUMBER OF<br>SIGNAL PINS | NUMBER OF<br>SHIELDS | A MAX | B     | M    | Au (µm) MIN<br>THICKNESS | Sn/Pb (µm)<br>THICKNESS |
|----------------|--------|--------------------------|----------------------|-------|-------|------|--------------------------|-------------------------|
| 74980-0*1      | 10     | 40                       | 10                   | 27.00 | 18.00 | 4.75 | 0.76                     | 0.38-152                |
| 74980-0*6      |        |                          |                      |       |       |      | 1.27                     |                         |
| 74980-5*1      | 25     | 100                      | 25                   | 57.00 | 48.00 |      | 0.76                     |                         |
| 74980-5*6      |        |                          |                      |       |       |      | 1.27                     |                         |
| 74980-0*2      | 10     | 40                       | 10                   | 27.00 | 18.00 | 6.25 | 0.76                     |                         |
| 74980-0*7      |        |                          |                      |       |       |      | 1.27                     |                         |
| 74980-5*2      | 25     | 100                      | 25                   | 57.00 | 48.00 |      | 0.76                     |                         |
| 74980-5*7      |        |                          |                      |       |       |      | 1.27                     |                         |
| 74980-0*3      | 10     | 40                       | 10                   | 27.00 | 18.00 | 4.25 | 0.76                     |                         |
| 74980-0*8      |        |                          |                      |       |       |      | 1.27                     |                         |
| 74980-5*3      | 25     | 100                      | 25                   | 57.00 | 48.00 |      | 0.76                     |                         |
| 74980-5*8      |        |                          |                      |       |       |      | 1.27                     |                         |
| 74980-0*4      | 10     | 40                       | 10                   | 27.00 | 18.00 | 5.15 | 0.76                     |                         |
| 74980-0*9      |        |                          |                      |       |       |      | 1.27                     |                         |
| 74980-5*4      | 25     | 100                      | 25                   | 57.00 | 48.00 |      | 0.76                     |                         |
| 74980-5*9      |        |                          |                      |       |       |      | 1.27                     |                         |

|                                                                                                                                  |                                  |                                                                                                                                                                                                                                   |                                |                        |                                                              |                    |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------|--------------------------------------------------------------|--------------------|
| SEE SHT 1<br>EC NO: UCP2006-0067<br>DRAWN: KMULVEY 2005/07/15<br>CHKD: 2005/07/18<br>APPR: SREED 2005/08/11                      | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ± 1 °<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | SCALE<br>4:1                   | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION                                    | REVISE ON CAD ONLY |
|                                                                                                                                  |                                  |                                                                                                                                                                                                                                   | DIMENSION STYLE<br>MM ONLY     |                        | TITLE<br>HSD SALES ASSEMBLY<br>6 ROW SIGNAL END<br>BACKPLANE |                    |
|                                                                                                                                  |                                  |                                                                                                                                                                                                                                   | DRAWN BY<br>NMARTIN 2002/09/04 |                        | MOLEX INCORPORATED                                           |                    |
|                                                                                                                                  |                                  |                                                                                                                                                                                                                                   | CHECKED BY<br>SREED 2002/09/04 |                        | MATERIAL NO.<br>SEE TABLE                                    |                    |
| APPROVED BY<br>CBIXLER 2002/09/04                                                                                                |                                  | DOCUMENT NO.<br>SD-74980-010                                                                                                                                                                                                      |                                | SHEET NO.<br>2 OF 2    |                                                              |                    |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                  |                                                                                                                                                                                                                                   |                                |                        |                                                              |                    |

11 10 9 8 7 6 5 4 3 2 1



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.