This document was generated on 05/28/2010

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Part Number: 0749811011
Status: Active
Overview: vhdm__hsd
Description: 2.00mm (.079") Pitch 6-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Shield End Version, 40 Circuits, Pin Length 4.75mm (.187")

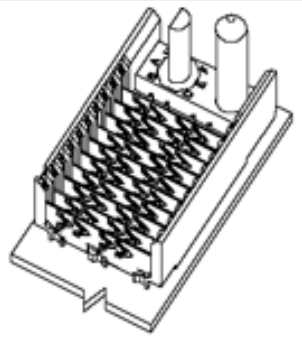


image - Reference only

Series

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	Backplane Connectors
Series	74981
Application	Backplane
Application Tooling Documents	Tooling Manual
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 Locator	No
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
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)	30
Plating min: Termination (µm)	0.75
Polarized to PCB	Yes

EU RoHS
RoHS Compliant by Exemption
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

Email 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
74981Series

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.

Global

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

Stackable	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

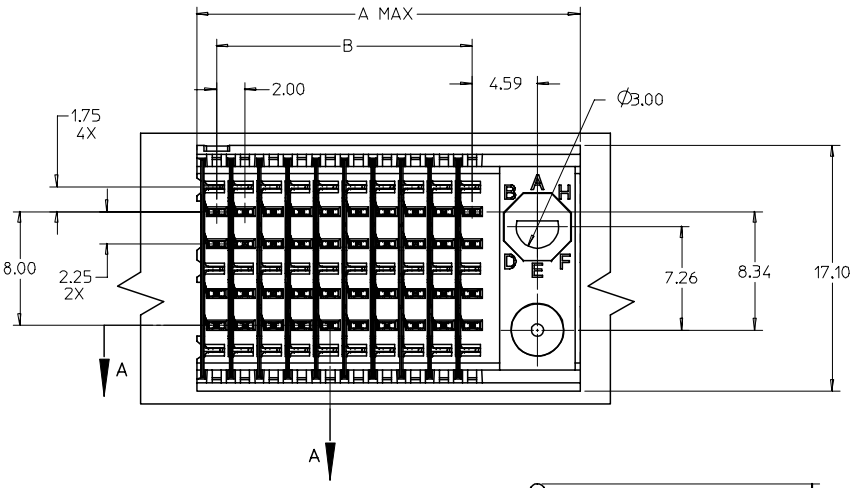
Electrical

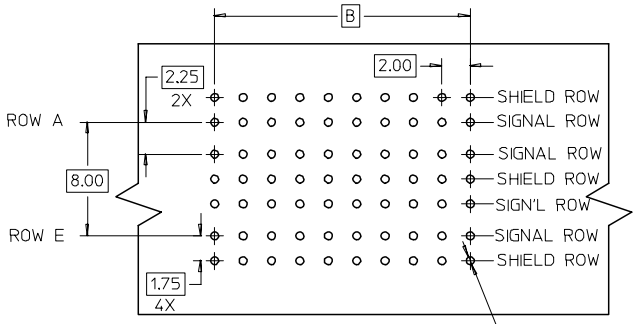
Current - Maximum per Contact	1A
Data Rate	5.0 Gbps
Real Signals (per 25mm)	48
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

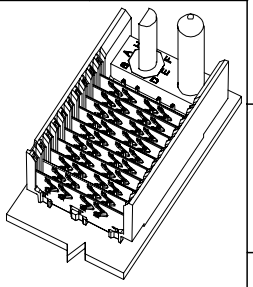
Reference - Drawing Numbers

Sales Drawing	SD-74981-010

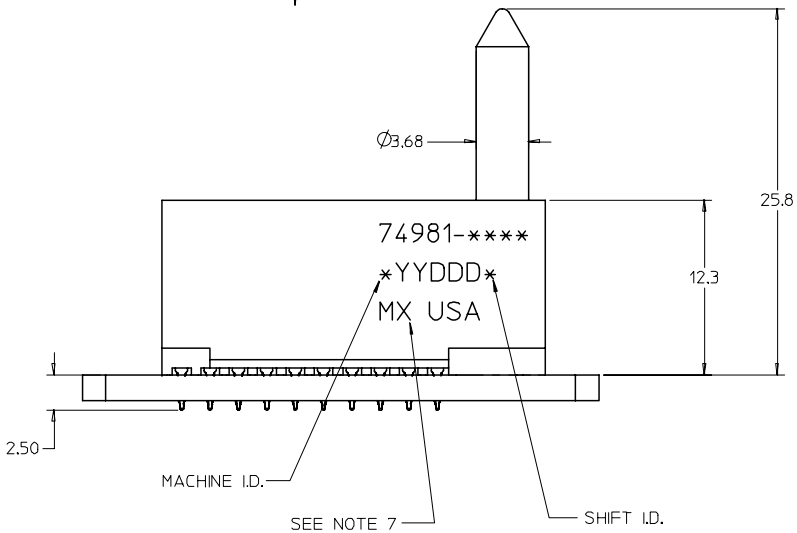


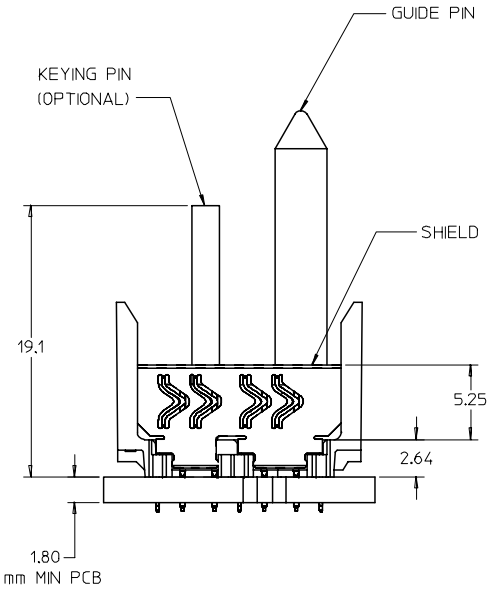


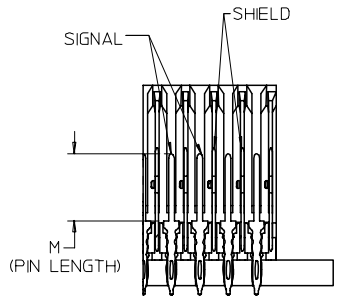
BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSIONS



Ø0.66 DRILL
Ø1.00 PAD
Ø0.56 ±0.05
PLATED THRU HOLE
⊕ Ø 0.10







SECTION A-A

NOTES:
1. MATERIAL: HOUSING-LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED. UL 94V-0. COLOR-BLACK. SIGNAL AND SHIELD - HIGH PERFORMANCE COPPER ALLOY.
2. FINISHES:
   CONTACT AREA: SELECTIVE GOLD (Au)
   PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn)
   NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999.
4. FOR MIXED CONTACT LENGTHS - CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74058-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON TUBE.

ADD LEADFREE PNs
EC NO: UCP2006-0067
DRWN: KMULVEY 2005/07/15
CHKD: 2005/07/18
APPR: SREED 2005/08/11
DESCRIPTION
REV B

QUALITY SYMBOLS
▼ = 0
▽ = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE	4:1
DESIGN UNITS	METRIC
DIMENSION STYLE	MM ONLY
DRAWN BY	NMARTIN
DATE	2002/09/06
CHECKED BY	SREED
DATE	2002/09/06
APPROVED BY	CBIXLER
DATE	2002/09/06

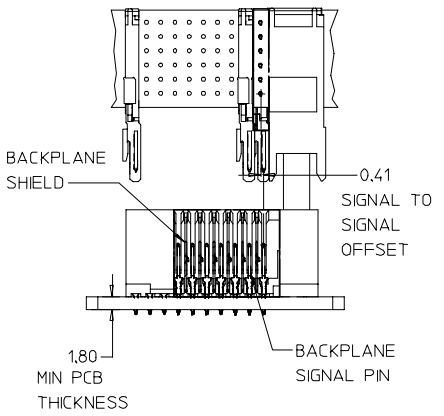
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

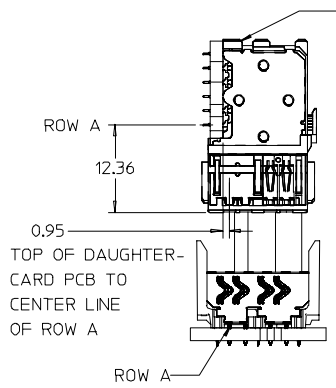
TITLE
HSD SALES ASSEMBLY
6 ROW SHIELD END
BACKPLANE

molex MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE SHEET 2	SD-74981-010	1 OF 2

C

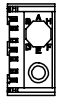
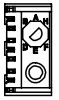
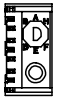
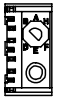
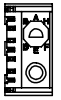
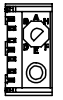
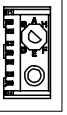




74981-****

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 74981-( )	-**0* 0	-**1* A	-**2* B	-**3* C	-**4* D	-**5* E	-**6* F	-**7* G	-**8* H
KEYING PIN ORIENTATION									

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A MAX	B	M	Au (µm) MIN THICKNESS	Sn/Pb (µm) THICKNESS
74981-*0*1	10	40	10	27.00	18.00	4.75	0.76	0.38-1.52
74981-*0*6							1.27	
74981-*5*1	25	100	25	57.00	48.00		0.76	
74981-*5*6							1.27	
74981-*0*2	10	40	10	27.00	18.00	6.25	0.76	
74981-*0*7							1.27	
74981-*5*2	25	100	25	57.00	48.00		0.76	
74981-*5*7							1.27	
74981-*0*3	10	40	10	27.00	18.00	4.25	0.76	
74981-*0*8							1.27	
74981-*5*3	25	100	25	57.00	48.00		0.76	
74981-*5*8							1.27	
74981-*0*4	10	40	10	27.00	18.00	5.15	0.76	
74981-*0*9							1.27	
74981-*5*4	25	100	25	57.00	48.00		0.76	
74981-*5*9							1.27	

SEE SHT 1
EC NO: UCP2006-0067
DRWN: KMULVEY 2005/07/15
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TITLE
HSD SALES ASSEMBLY
6 ROW SHIELD END
BACKPLANE

molex MOLEX INCORPORATED

MATERIAL NO. SEE TABLE
DOCUMENT NO. SD-74981-010
SHEET NO. 2 OF 2

C