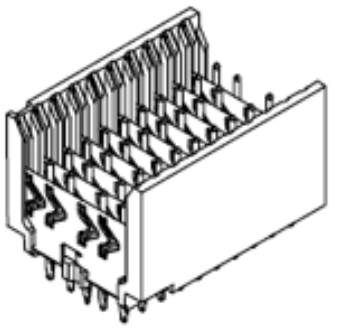
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0746951006
Status: Active
Overview: vhdm__hsd
Description: 2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Open Module, 40 Circuits, Pin Length 4.75mm (.187")



Series image - Reference only

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

Agency Certification

CSA	LR19980

General

Product Family	Backplane Connectors
Series	74695
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Open Header
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	No
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
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	5
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)	50
Plating min: Mating (µm)	1.25
Plating min: Termination (µin)	30
Plating min: Termination (µm)	0.75
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

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

China RoHS
50
Pb

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
74695Series

Mates With
HSD Daughtercards 74680 , 74686

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® 5 Row Pin and Shield Repair Tool	0622015810
VHDM® 5 Row Shield Extraction Tool	0622016010
VHDM-HSD™ Signal Header, 5 Row by	0622020201

10 Wide, 20.00mm (.787")

Electrical

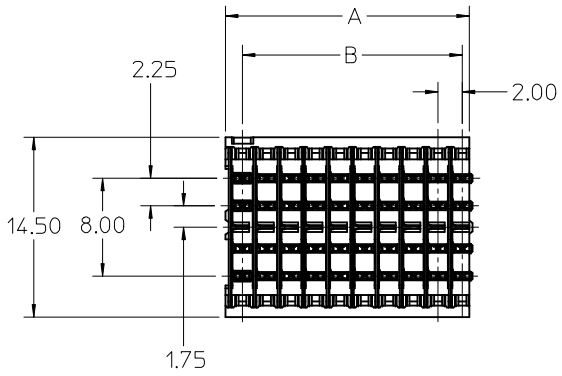
Current - Maximum per Contact	1A
Data Rate	5.0 Gbps
Shield Type	Ground Plane Shield
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

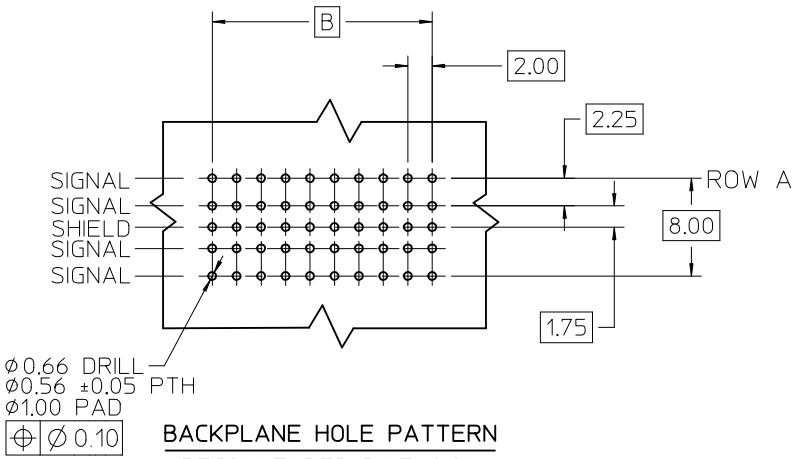
Material Info

Reference - Drawing Numbers

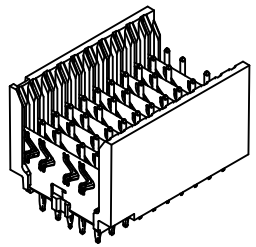
Packaging Specification	PK-74695-003
Sales Drawing	SD-74695-002

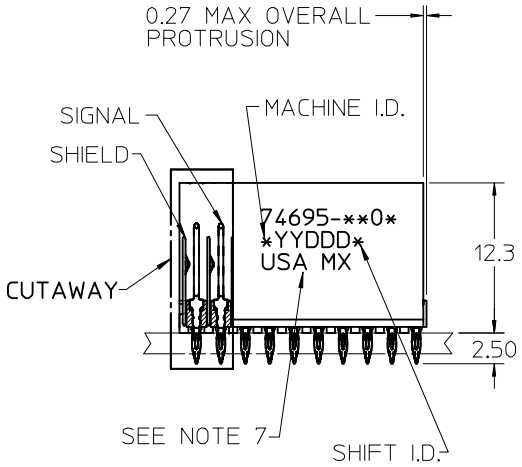
VHDM-HSD is a trademark of Amphenol Corporation

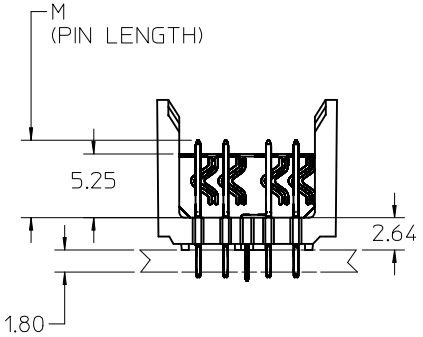




BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION







NOTES:

1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP). GLASS-FILLED. UL 94 V-0. COLOR BLACK. SIGNAL & SHIELD -COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA. SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn) ON PCB TAILS. NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74695-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.

REVISED: ADD LEAD-FREE			
EC NO: UCP2006-1727			
DRWN: CTHOMAS 2006/02/16			
CHKD: JBINGHAM 2006/02/16			
APPR: KMULVEY 2006/02/16			
DESCRIPTION			
REV			
D			

QUALITY SYMBOLS: ▼-0, ▽(C)-0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE	2.5:1
DESIGN UNITS	METRIC
THIRD ANGLE PROJECTION	
REVISE ON CAD ONLY	
DIMENSION STYLE	MM ONLY
DRAWN BY	MQWANG
DATE	2001/04/11
CHECKED BY	NMARTIN
DATE	2001/04/14
APPROVED BY	CBIXLER
DATE	2001/04/14

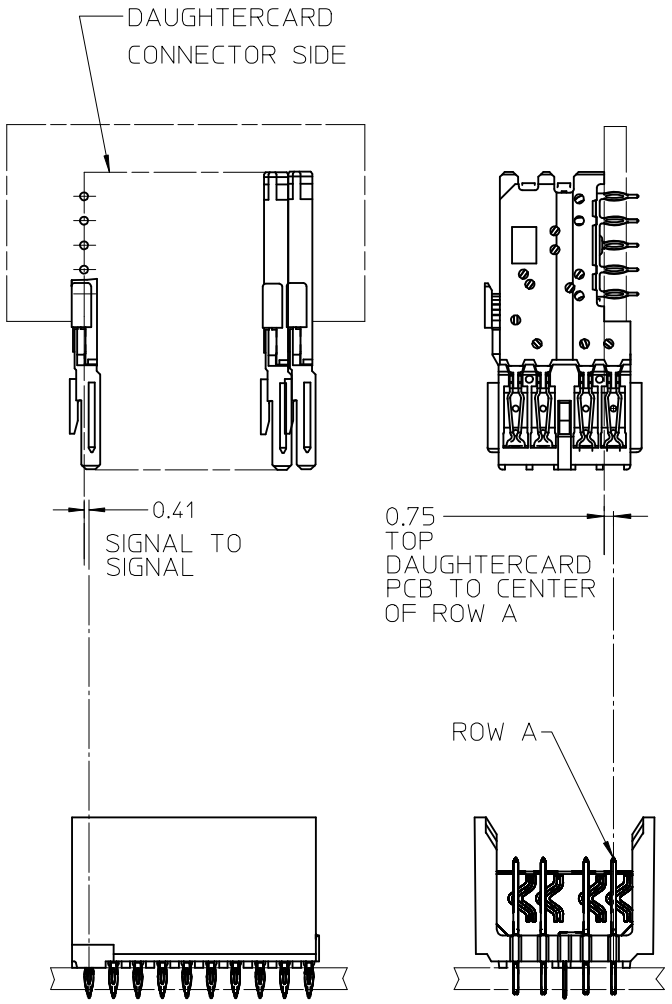
TITLE: HSD SALES ASSEMBLY 5 ROW OPEN END BACKPLANE

MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE SHT.2&3	SD-74695-002	1 OF 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

B



MATERIAL NUMBER ASSIGNMENT

74695-** **

** SEE TABLES (SHEET 3)

** NUMBER OF COLUMNS/PLATING

10 = 10 COLUMN TIN/LEAD
12 = 12 COLUMN TIN/LEAD
15 = 15 COLUMN TIN/LEAD
25 = 25 COLUMN TIN/LEAD
90 = 10 COLUMN MATTE TIN
92 = 12 COLUMN MATTE TIN
95 = 15 COLUMN MATTE TIN
85 = 25 COLUMN MATTE TIN

REVISED: ADD LEAD-FREE
EC NO: UCP2006-1727
DRWN: CTHOMAS 2006/02/16
CHKD: JBINGHAM 2006/02/16
APPR: KMULVEY 2006/02/16
DESCRIPTION
D
REV

QUALITY SYMBOLS
▼ - 0
Ⓒ - 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 2.5:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY

DIMENSION STYLE: MM ONLY

DRAWN BY: MQWANG DATE: 2001/04/11

CHECKED BY: NMARTIN DATE: 2001/04/14

APPROVED BY: CBIXLER DATE: 2001/04/14

TITLE: HSD SALES ASSEMBLY
5 ROW OPEN END
BACKPLANE

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLES

DOCUMENT NO.: SD-74695-002

SHEET NO.: 2 OF 3

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B

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) THICKNESS	Sn/Pb (um)
74695-1001	10	40	10	20.00	18.00	4.75	0.76	0.76-1.52
74695-1006							1.27	
74695-1201	12	48	12	24.00	22.00		0.76	
74695-1206							1.27	
74695-2501	25	100	25	50.00	48.00		0.76	
74695-2506							1.27	
74695-1002	10	40	10	20.00	18.00	6.25	0.76	
74695-1007							1.27	
74695-1202	12	48	12	24.00	22.00		0.76	
74695-1207							1.27	
74695-2502	25	100	25	50.00	48.00		0.76	
74695-2507							1.27	
74695-1003	10	40	10	20.00	18.00	4.25	0.76	
74695-1008							1.27	
74695-1203	12	48	12	24.00	22.00		0.76	
74695-1208							1.27	
74695-2503	25	100	25	50.00	48.00		0.76	
74695-2508							1.27	
74695-1004	10	40	10	20.00	18.00	5.15	0.76	
74695-1009							1.27	
74695-1204	12	48	12	24.00	22.00		0.76	
74695-1209							1.27	
74695-2504	25	100	25	50.00	48.00		0.76	
74695-2509							1.27	

TIN/LEAD CHART

PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS	Sn (um)
74695-9001	10	40	10	20.00	18.00	4.75	0.76	0.76-1.52
74695-9006							1.27	
74695-9501	12	48	12	24.00	22.00		0.76	
74695-9506							1.27	
74695-8501	25	100	25	50.00	48.00		0.76	
74695-8506							1.27	
74695-9002	10	40	10	20.00	18.00	6.25	0.76	
74695-9007							1.27	
74695-9502	12	48	12	24.00	22.00		0.76	
74695-9507							1.27	
74695-8502	25	100	25	50.00	48.00		0.76	
74695-8507							1.27	
74695-9003	10	40	10	20.00	18.00	4.25	0.76	
74695-9008							1.27	
74695-9503	12	48	12	24.00	22.00		0.76	
74695-9508							1.27	
74695-8503	25	100	25	50.00	48.00		0.76	
74695-8508							1.27	
74695-9004	10	40	10	20.00	18.00	5.15	0.76	
74695-9009							1.27	
74695-9504	12	48	12	24.00	22.00		0.76	
74695-9509							1.27	
74695-8504	25	100	25	50.00	48.00		0.76	
74695-8509							1.27	

LEAD FREE CHART

ADDED SHEET: 3
EC NO: UCP2006-1727 2006/02/16
DRWN:CTHOMAS 2006/02/16
CH'KD:JBINGHAM
APPR:KMULVEY 2006/02/16
DESCRIPTION
D
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	MQWANG	DATE 2001/04/11
CHECKED BY	NMARTIN	DATE 2001/04/14
APPROVED BY	CBIXLER	DATE 2001/04/14

TITLE: HSD SALES ASSEMBLY 5 ROW OPEN END BACKPLANE

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLES
DOCUMENT NO.: SD-74695-002
SHEET NO.: 3 OF 3
SIZE: C

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