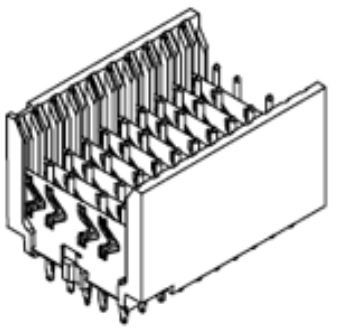
molex
one company > a world of innovation

This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0746951102
Status: Active
Overview: vhdm__hsd
Description: 2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Open End Version, Advanced Mate Shield, 40 Circuits, Pin Length 6.25mm (.246")



Series image - Reference only

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

Agency Certification

CSA	LR19880

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)	30
Plating min: Mating (µm)	0.75
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
Contains SVHC: No
Halogen-Free Status
Halogen-Free

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
74670 HSD Daughtercard

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® 5 Row Pin and Shield Repair Tool	0622015810
VHDM® 5 Row Shield Extraction Tool	0622016010
VHDM-HSD™ Signal Header, 5 Row by 10 Wide, 20.00mm (.787")	0622020201

Electrical

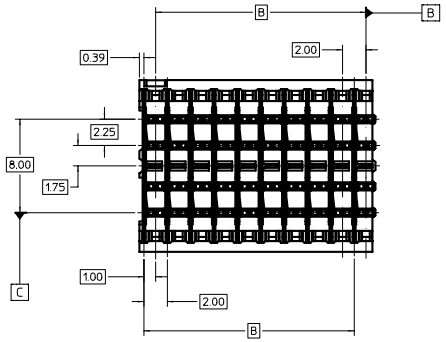
Current - Maximum per Contact	1A
Data Rate	5.0 Gbps
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

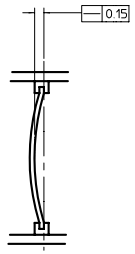
Material Info

Reference - Drawing Numbers

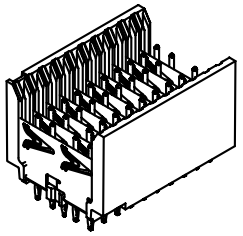
Packaging Specification	PK-74695-003
Sales Drawing	E-74695-002, SD-74695-003

VHDM-HSD is a trademark of Amphenol Corporation





DETAIL X



74695-**0*

COLUMN CODE
11 OR 26

MODULE CODE
0 = OPEN

PIN EHIGHT
1 & 6 = 4.75
2 & 7 = 6.25
3 & 8 = 4.25
4 & 9 = 5.15

TABLE 1			
ASSEMBLY M/N	B	TOTAL NUMBER OF SIGNAL CONTACT	TOTAL NUMBER OF GROUND SHIELD
74695-110*	18.00	40	10
74695-260*	48.00	100	25

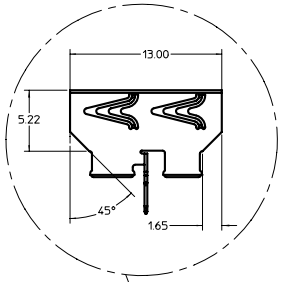
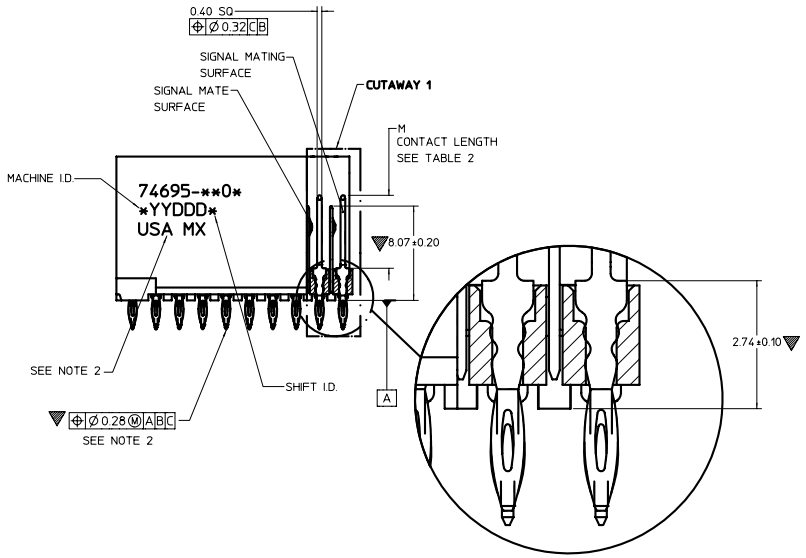
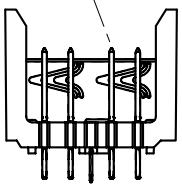


TABLE 2					
PLATING PER	ASSEMBLY M/N	HOUSING	SIGNAL CONTACT M/N	SIGNAL CONTACT LENGTH M	SHIELD CONTACT
30 GOLD	74695-110*	74689-0010	74054-*527	*=1-4 1=4.75 2=6.25	74688-6527
	74695-260*	74689-0025			
50 GOLD	74695-110*	74689-0010	74354-*922	3=4.25 4=5.15	74688-6922
	74695-260*	74689-0025			



SCALE 20:1



NOTES:
1. SHIELDS SHALL BE STRAIGHT WITH MAXIMUM ALLOWABLE BOW OF 0.15 ON EITHER SIDE. SEE DETAIL X.
2. TAIL SIDE POSITION TOLERANCE TO BE INSPECTED USING GAGE 74047-0046.
3. PACKAGE PER PK-74695-003.
4. EITHER MARK PARTS WITH PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.
5. MATING SIDE POSITION TOLERANCE OF SIGNAL PINS AND STRAIGHTNESS TOLERANCE OF SHIELD TO BE INSPECTED USING GAGE 74047-0043.

EC NO: UDT2002-0291
DRWN: MQWANG 2001/09/12
CHKD: NMARTIN 2001/09/12
APPR: CBIXLER 2001/09/13
DESCRIPTION
REV: A

QUALITY SYMBOLS
5
0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.05	± ---
1 PLACE	± 0.13	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 5:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
DRAWN BY MQWANG DATE 2001/08/02
CHECKED BY NMARTIN DATE 2001/08/02
APPROVED BY CBIXLER DATE 2001/08/02
MATERIAL NO. SEE TABLE
DOCUMENT NO. E-74695-002
SHEET NO. 1 OF 1

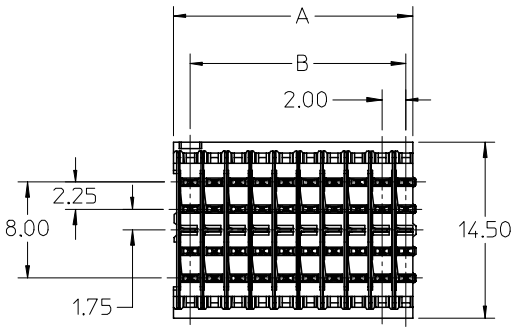
TITLE
HSD ENGINEERING ASSEMBLY
ADVANCE MATE 5 ROW
OPEN END BACKPLANE

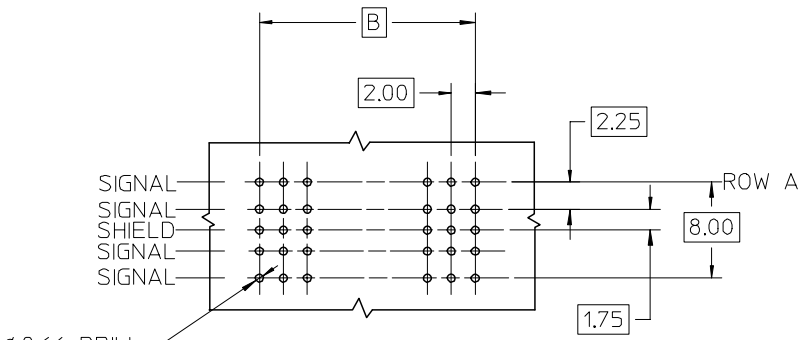
MOLEX INCORPORATED

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

D

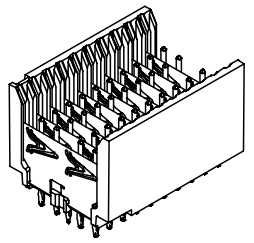
fb_frame_D-01
rev. 01 2000/08/01

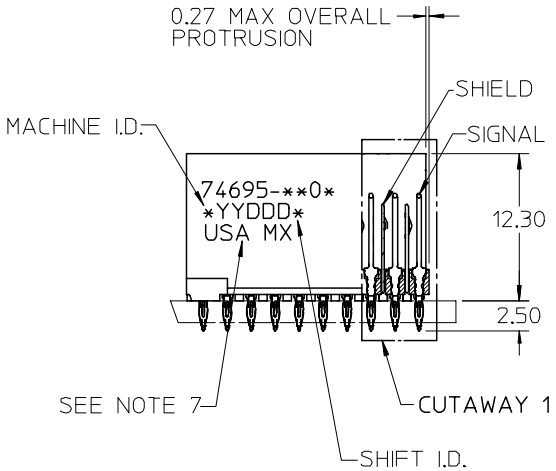


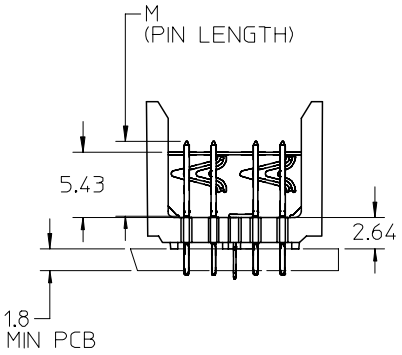


Ø0.66 DRILL
Ø0.56 ±0.05 PTH
Ø1.00 PAD
⌖ Ø 0.10

BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION







NOTES:

1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP). GLASS-FILLED. UL94 V-0. COLOR: BLACK. SIGNAL & SHIELD -COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON 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 - PLATING NOTE
EC NO: UCP2005-2161
DRWN: JBINGHAM 2005/04/07
CH'KD: 2005/04/07
APPR: CBIXLER 2005/04/08
DESCRIPTION
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	DESIGN UNITS
2.5:1	METRIC

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

DIMENSION STYLE: MM ONLY

DRAWN BY	DATE
MQWANG	2001/10/04
CHECKED BY	DATE
NMARTIN	2001/10/05
APPROVED BY	DATE
CBIXLER	2001/10/08

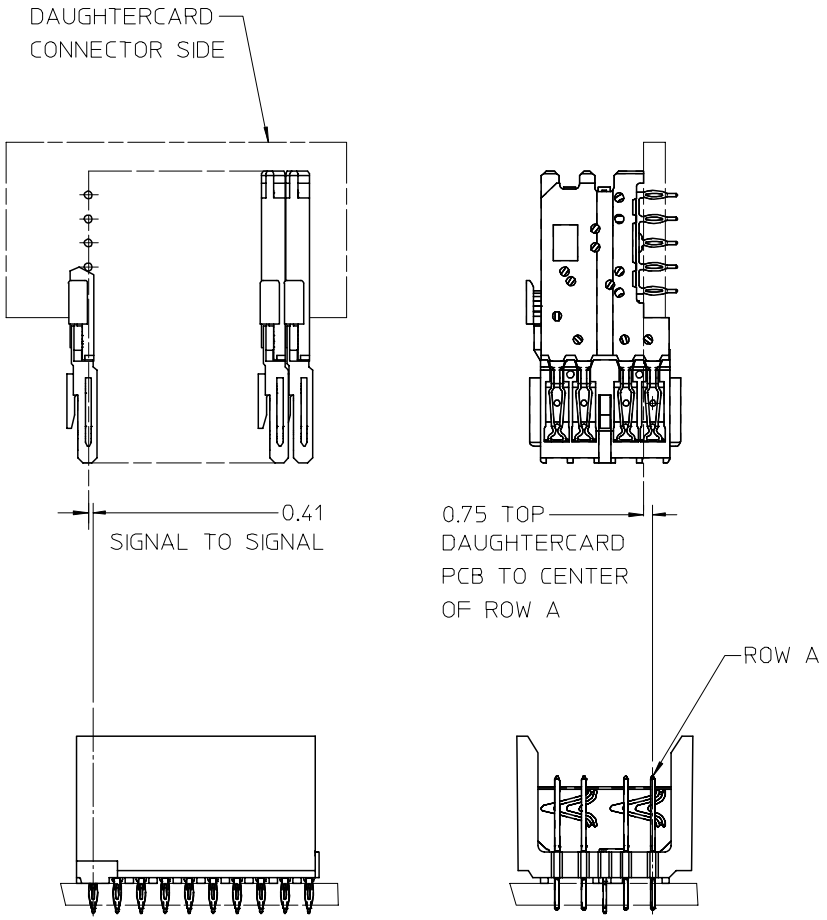
TITLE
HSD SALES ASSEMBLY
5 ROW ADVANCED MATE
OPEN END BACKPLANE

MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE SHEET 2	SD-74695-003	1 OF 2

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

B



PART NUMBER	COLUMN	NUMBER OF SIGNALS	NUMBER OF SHIELDS	A	B	M	Au (um) THICKNESS	Sn (um) THICKNESS
74695-1101	10	40	10	20.00	18.00	4.75	0.76	0.76-1.52
74695-1106							1.27	
74695-2601	25	100	25	50.00	48.00		0.76	
74695-2606							1.27	
74695-1102	10	40	10	20.00	18.00	6.25	0.76	
74695-1107							1.27	
74695-2602	25	100	25	50.00	48.00		0.76	
74695-2607							1.27	
74695-1103	10	40	10	20.00	18.00	4.25	0.76	
74695-1108							1.27	
74695-2603	25	100	25	50.00	48.00		0.76	
74695-2608							1.27	
74695-1104	10	40	10	20.00	18.00	5.15	0.76	
74695-1109							1.27	
74695-2604	25	100	25	50.00	48.00		0.76	
74695-2609							1.27	

SEE SHEET 1
EC NO: UCP2005-2161
DRWN: JBINGHAM 2005/04/07
CH'KD: 2005/04/07
APPR: CBIXLER 2005/04/08
DESCRIPTION
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 2001/10/04
CHECKED BY NMARTIN DATE 2001/10/05
APPROVED BY CBIXLER DATE 2001/10/08

TITLE
HSD SALES ASSEMBLY
5 ROW ADVANCED MATE
OPEN END BACKPLANE

MOLEX INCORPORATED

MATERIAL NO. SEE TABLE
DOCUMENT NO. SD-74695-003
SHEET NO. 2 OF 2

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

B