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Part Number: [0746951103](#)
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 4.25mm (.167")

Documents:
[Drawing \(PDF\)](#)

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

Agency Certification

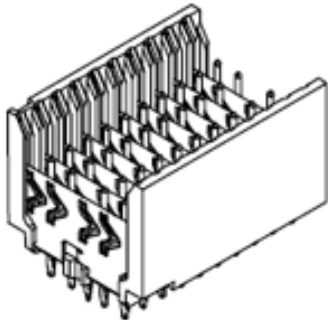
CSA LR19880

General

Product Family	Backplane Connectors
Series	74695
Application	Backplane
Application Tooling Documents	http://www.molex.com/pdm_docs/ats/TM-622010999.pdf >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



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

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
[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

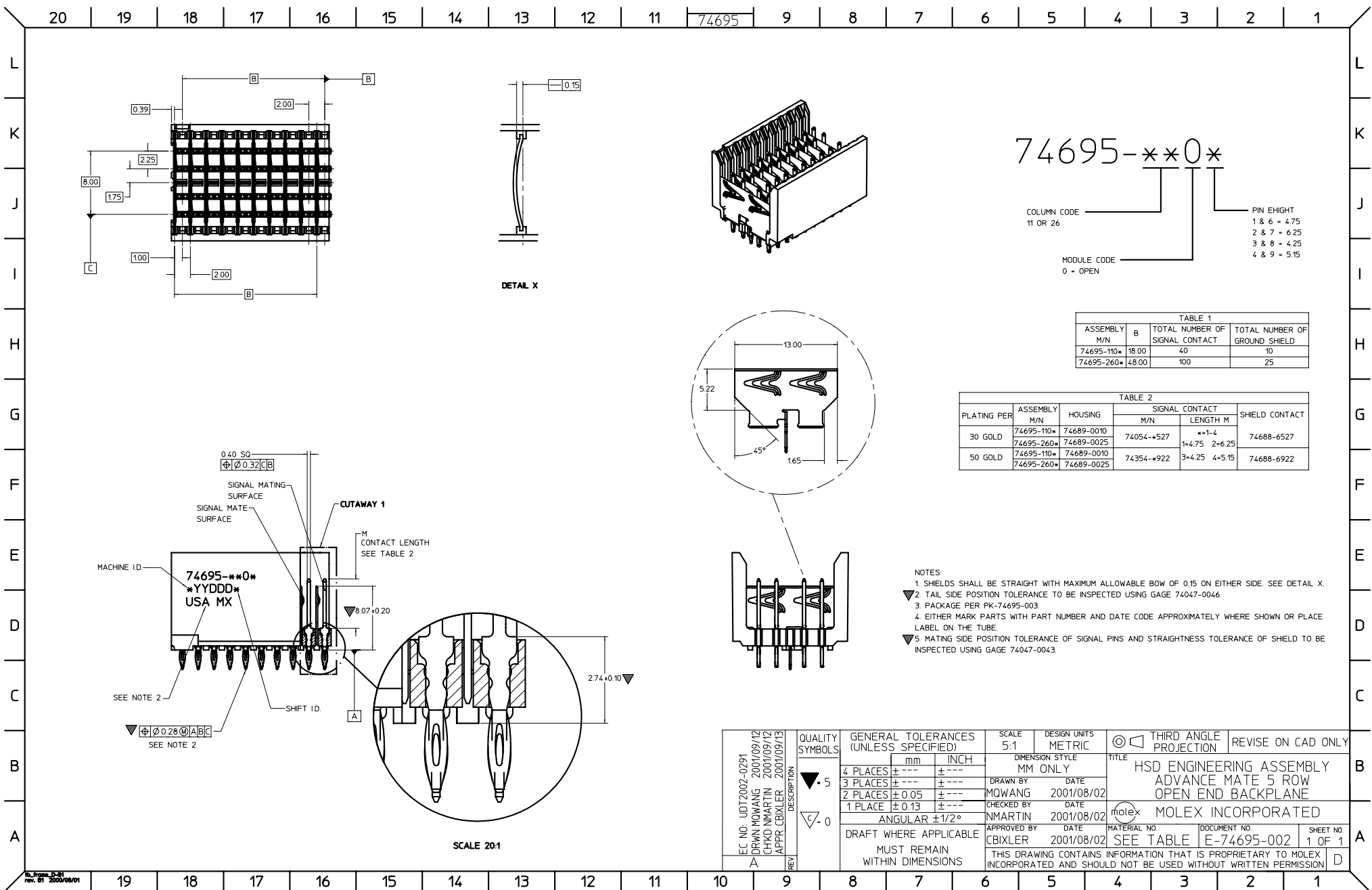
Reference - Drawing Numbers

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

VHDM-HSD is a trademark of Amphenol Corporation

This document was generated on 06/08/2010

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74695-**-0*

COLUMN CODE
11 OR 26

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

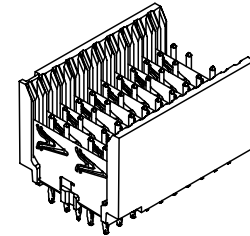
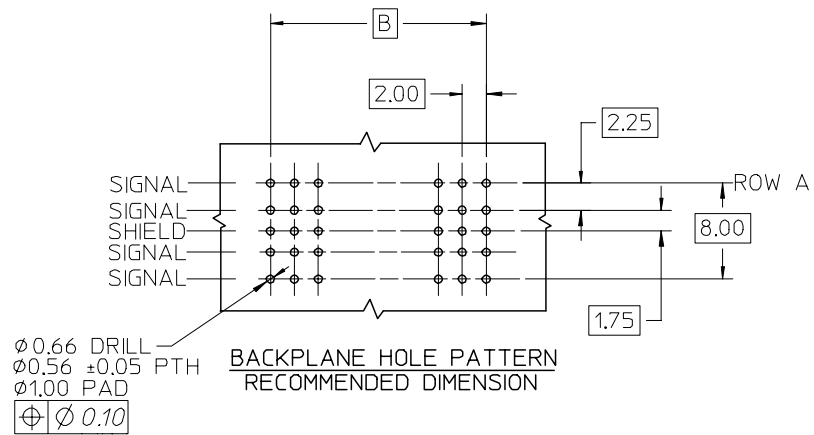
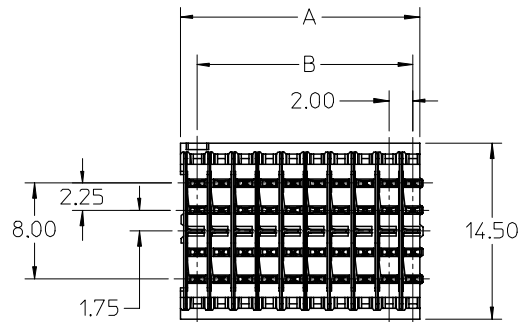
MODULE CODE
0 = OPEN

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

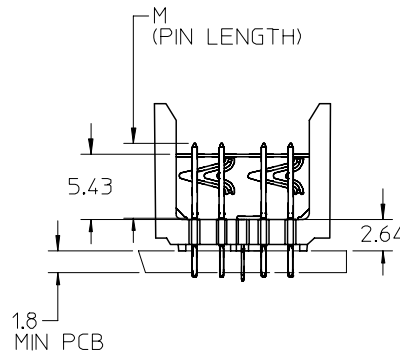
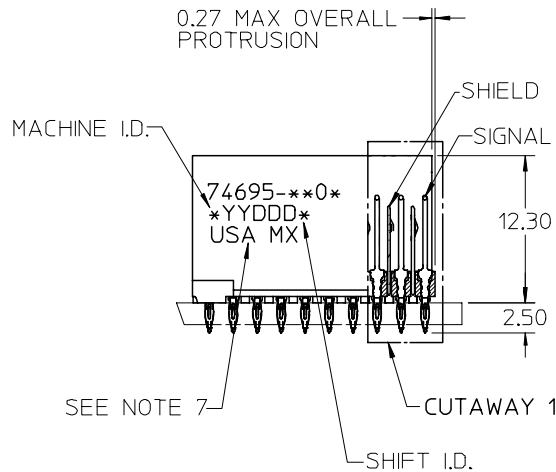
TABLE 2					
PLATING PER	ASSEMBLY M/N	HOUSING	SIGNAL CONTACT		SHIELD CONTACT
			M/N	LENGTH M	
30 GOLD	74695-110*	74689-0010	74054-*	527	74688-6527
	74695-260*	74689-0025	74054-*	527	
50 GOLD	74695-110*	74689-0010	74354-*	922	74688-6922
	74695-260*	74689-0025	74354-*	922	

- 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 DRAWN MOWANG 2001/09/12 CHKD NMARTIN 2001/09/12 APPR CBXLER 2001/09/13 REV: A	QUALITY SYMBOLS 5 0	DESCRIPTION 5 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
					DIMENSION STYLE			TITLE	
					MM ONLY			HSD ENGINEERING ASSEMBLY ADVANCE MATE 5 ROW OPEN END BACKPLANE	
			4 PLACES ± --- ± ---		DRAWN BY MOWANG			DATE 2001/08/02	
			3 PLACES ± --- ± ---		CHECKED BY NMARTIN			DATE 2001/08/02	
			2 PLACES ± 0.05 ± ---		APPROVED BY CBXLER			DATE 2001/08/02	
			1 PLACE ± 0.13 ± ---		MATERIAL NO.			DOCUMENT NO.	
			ANGULAR ± 1/2°		SEE TABLE			E-74695-002	
			DRAFT WHERE APPLICABLE		SHEET NO.			1 OF 1	
			MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				D



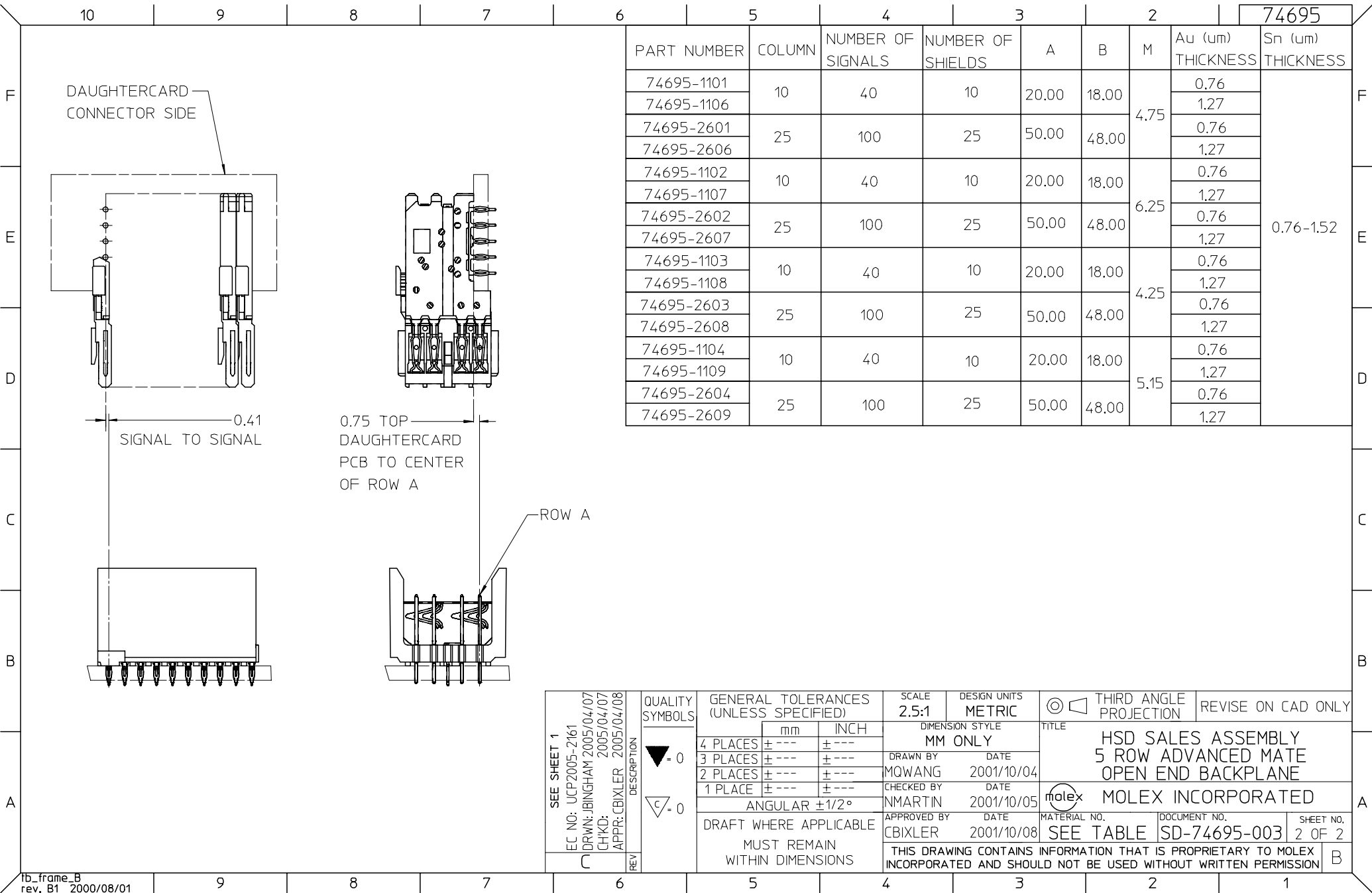
0.27 MAX OVERALL
PROTRUSION



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: JINGHAM 2005/04/07 CHKD: 2005/04/07 APPR: CBXLER 2005/04/08	QUALITY SYMBOLS ▽ = 0 ◻ = 0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2.5:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
					DIMENSION STYLE MM ONLY		TITLE HSD SALES ASSEMBLY 5 ROW ADVANCED MATE OPEN END BACKPLANE			
			4 PLACES ± --- ± ---		DRAWN BY DATE		MOLEX MOLEX INCORPORATED			
			3 PLACES ± --- ± ---		2001/10/04					
2 PLACES ± --- ± ---		CHECKED BY DATE		MATERIAL NO. DOCUMENT NO. SHEET NO.						
1 PLACE ± --- ± ---		2001/10/05						SEE SHEET 2SD-74695-003 1 OF 2		
ANGULAR ±1/2°				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
DRAFT WHERE APPLICABLE		APPROVED BY DATE						B		
MUST REMAIN WITHIN DIMENSIONS		CBXLER 2001/10/08								



74695									
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	F
74695-1106							1.27		
74695-2601	25	100	25	50.00	48.00	6.25	0.76		
74695-2606							1.27		
74695-1102	10	40	10	20.00	18.00	4.25	0.76		
74695-1107							1.27		
74695-2602	25	100	25	50.00	48.00	5.15	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	5.15	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	5.15	0.76		
74695-2609							1.27		

SEE SHEET 1 EC NO: UCP2005-2161 DRWN: JBINGHAM 2005/04/07 CHKD: 2005/04/07 APPR: CBIXLER 2005/04/08	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		REVISE ON CAD ONLY						
		▽ = 0 ▽ = 0		mm	INCH	DIMENSION STYLE MM ONLY		TITLE HSD SALES ASSEMBLY 5 ROW ADVANCED MATE OPEN END BACKPLANE							
			4 PLACES	± ---	± ---	DRAWN BY MQWANG						DATE 2001/10/04			
			3 PLACES	± ---	± ---	CHECKED BY NMARTIN						DATE 2001/10/05			
			2 PLACES	± ---	± ---	APPROVED BY CBIXLER		DATE 2001/10/08		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74695-003		SHEET NO. 2 OF 2	
			1 PLACE	± ---	± ---										
		ANGULAR ±1/2°				MOLEX		MOLEX INCORPORATED							
		DRAFT WHERE APPLICABLE													
		MUST REMAIN WITHIN DIMENSIONS													
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												B	