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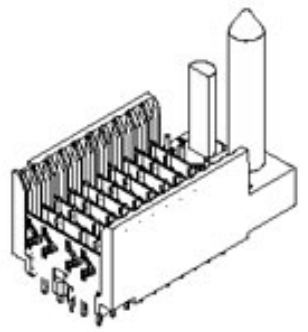
Part Number: 0746971002
Status: Active
Overview: vhdm__hsd
Description: 2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Shield End Version, 40 Circuits, Pin Length 6.25mm (.246")



Series image - Reference only

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

Agency Certification

CSA	LR19980

General

Product Family	Backplane Connectors
Series	74697
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	No Keying Position
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	None
Material - Metal	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	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
Stackable	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
74697Series

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® 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
Real Signals (per 25mm)	48
Voltage - Maximum	120V AC (RMS)/DC

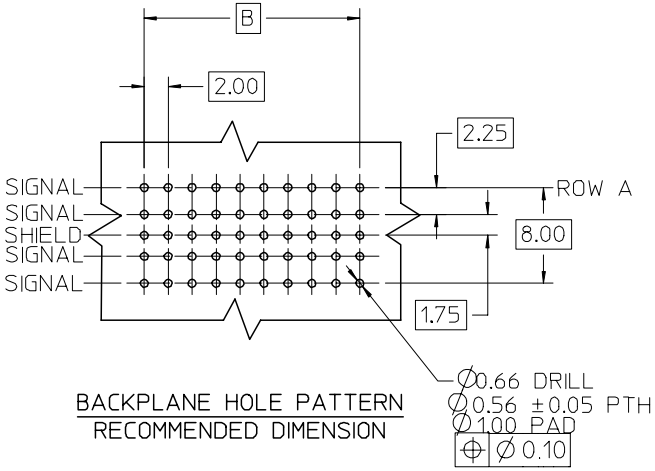
Material Info

Reference - Drawing Numbers

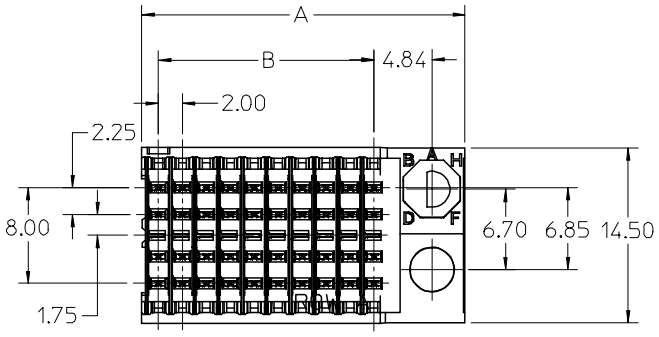
Packaging Specification	PK-74696-003
Sales Drawing	SD-74697-002

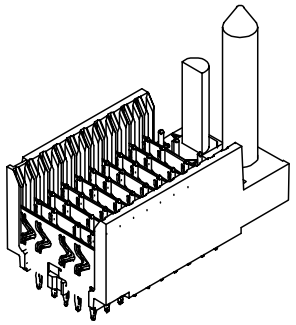
VHDM-HSD is a trademark of Amphenol Corporation

74697



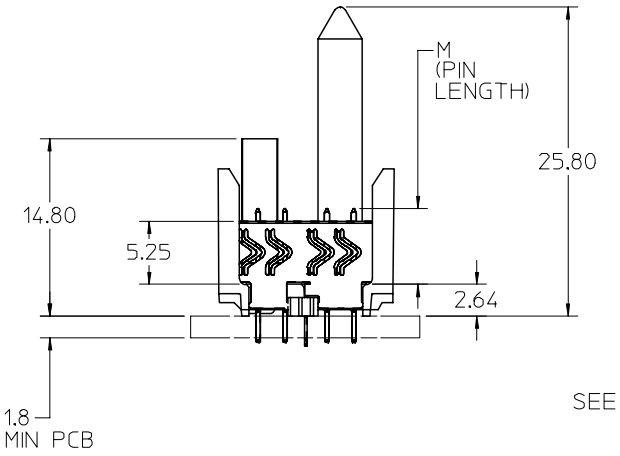
BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION

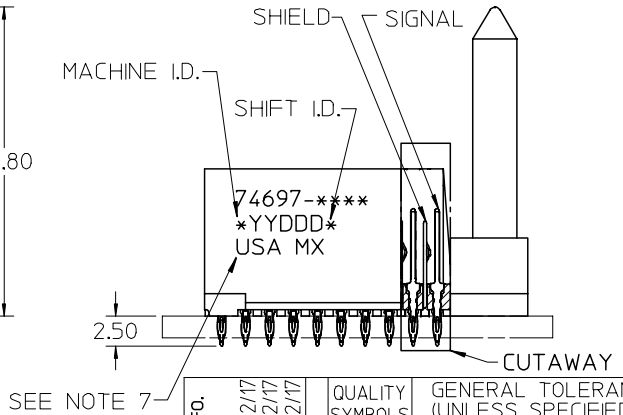




NOTES:

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-74696-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.





ADDED LEAD-FREE INFO.
EC NO: UCP2006-1744
DRWN:CTHOMAS 2006/02/17
CHKD: JBINGHAM 2006/02/17
APPR:KMULVEY 2006/02/17
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
DIMENSION STYLE	MM ONLY
DRAWN BY	MQWANG
DATE	2001/04/17
CHECKED BY	NMARTIN
DATE	2001/04/20
APPROVED BY	CBIXLER
DATE	2001/04/20

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

TITLE
HSD SALES ASSEMBLY
5 ROW SHIELD END
BACKPLANE

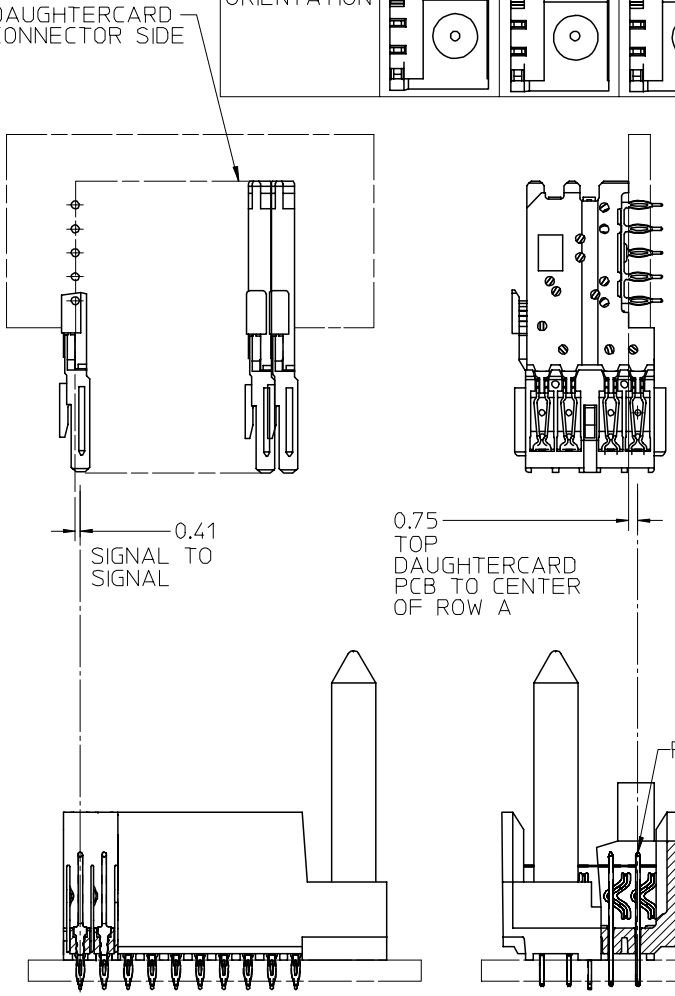
MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE SHT.2&3	SD-74697-002	1 OF 3

B

74697

P/N 74697-( )	-**0-	-**1-	-**2-	-**3-	-**4-	-**5-	-**6-	-**7-	-**8-
KEYING PIN ORIENTATION	0	A	B	C	D	E	F	G	H



74697-****

NUMBER OF COLUMNS/PLATING
05 = 05 COLUMN TIN/LEAD
10 = 10 COLUMN TIN/LEAD
25 = 25 COLUMN TIN/LEAD
95 = 05 COLUMN MATTE TIN
90 = 10 COLUMN MATTE TIN
85 = 25 COLUMN MATTE TIN

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

ADDED LEAD-FREE INFO.
EC NO: UCP2006-1744
DRWN: CTHOMAS 2006/02/17
CHKD: JBINGHAM 2006/02/17
APPR: KMULVEY 2006/02/17
DESCRIPTION
REV
D

QUALITY SYMBOLS
▼ = 0
▽ (C) = 0

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

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SCALE	2.5:1
DESIGN UNITS	METRIC
DIMENSION STYLE	MM ONLY
DRAWN BY	MQWANG
DATE	2001/04/17
CHECKED BY	NMARTIN
DATE	2001/04/20
APPROVED BY	CBIXLER
DATE	2001/04/20

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

TITLE
HSD SALES ASSEMBLY
5 ROW SHIELD END
BACKPLANE

MOLEX INCORPORATED

MATERIAL NO. SEE TABLES
DOCUMENT NO. SD-74697-002
SHEET NO. 2 OF 3

B

tb_frame_B
rev. B1 2000/08/01

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) MIN THICKNESS	Sn/Pb (um) THICKNESS
74697-10*1	10	40	10	27.00	18.00	4.75	0.76	0.76-1.52
74697-10*6							1.27	
74697-25*1	25	100	25	57.00	48.00		0.76	
74697-25*6							1.27	
74697-05*7	5	20	5	17.00	8.00	6.25	1.27	
74697-10*2	10	40	10	27.00	18.00		0.76	
74697-10*7							1.27	
74697-25*2	25	100	25	57.00	48.00		0.76	
74697-25*7							1.27	
74697-10*3	10	40	10	27.00	18.00	4.25	0.76	
74697-10*8							1.27	
74697-25*3	25	100	25	57.00	48.00		0.76	
74697-25*8							1.27	
74697-10*4	10	40	10	27.00	18.00	5.15	0.76	
74697-10*9							1.27	
74697-25*4	25	100	25	57.00	48.00		0.76	
74697-25*9							1.27	

TIN/LEAD P/N CHART

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) MIN THICKNESS	Sn (um) THICKNESS
74697-90*1	10	40	10	27.00	18.00	4.75	0.76	0.76-1.52
74697-90*6							1.27	
74697-85*1	25	100	25	57.00	48.00		0.76	
74697-85*6							1.27	
74697-95*7	5	20	5	17.00	8.00	6.25	1.27	
74697-90*2	10	40	10	27.00	18.00		0.76	
74697-90*7							1.27	
74697-85*2	25	100	25	57.00	48.00		0.76	
74697-85*7							1.27	
74697-90*3	10	40	10	27.00	18.00	4.25	0.76	
74697-90*8							1.27	
74697-85*3	25	100	25	57.00	48.00		0.76	
74697-85*8							1.27	
74697-90*4	10	40	10	27.00	18.00	5.15	0.76	
74697-90*9							1.27	
74697-85*4	25	100	25	57.00	48.00		0.76	
74697-85*9							1.27	

LEAD FREE P/N CHART

ADDED SHEET:3
EC NO: UCP2006-1744 2006/02/17
DRWN:CTHOMAS 2006/02/17
CHKD:JBINGHAM 2006/02/17
APPR:KMULVEY 2006/02/17
DESCRIPTION
REV D

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: 2.5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	MQWANG	2001/04/17
CHECKED BY	NMARTIN	2001/04/20
APPROVED BY	CBIXLER	2001/04/20

TITLE: HSD SALES ASSEMBLY 5 ROW SHIELD END BACKPLANE

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLES
DOCUMENT NO.: SD-74697-002
SHEET NO.: 3 OF 3
SIZE: C