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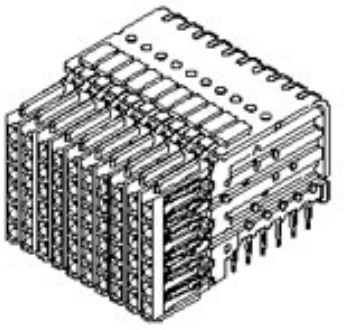
Part Number: 0746810001
Status: Active
Overview: vhdm__hsd
Description: 2.00mm (.079") Pitch 8-Row VHDM-HSD™ Board-to-Board Daughtercard Receptacle, Right Angle, Signal Module, 60 Circuits



Series image - Reference only

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

General

Product Family	Backplane Connectors
Series	74681
Application	Daughtercard
Application Tooling Documents	Tooling Manual
Comments	Wafers aggregated into connectors receive a custom order number 74680-XXXX for 8 row daughtercard assemblies.
Component Type	PCB Receptacle
Overview	vhdm__hsd
Product Name	VHDM-HSD™
Style	N/A

Physical

Circuits (Loaded)	60
Circuits (maximum)	60
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
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	8
Orientation	Right Angle
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)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	30.4
Plating min: Termination (µm)	0.76
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

Electrical

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
74681Series

Mates With
VHDM-HSD™ Backplane Header 74649 , 74650 , 74651

Use With
Backplane Modules

Current - Maximum per Contact	1A
Data Rate	5.0 Gbps
Real Signals (per 25mm)	100
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

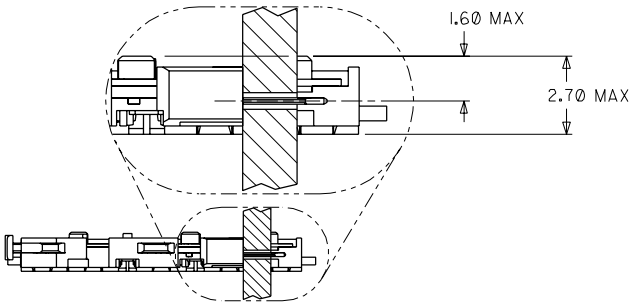
Sales Drawing	SD-74681-002

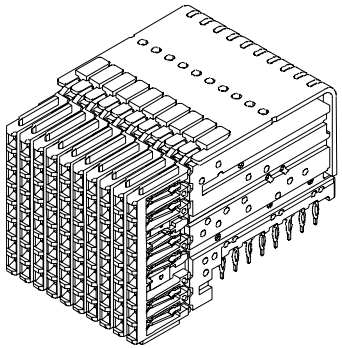
VHDM-HSD is a trademark of Amphenol Corporation

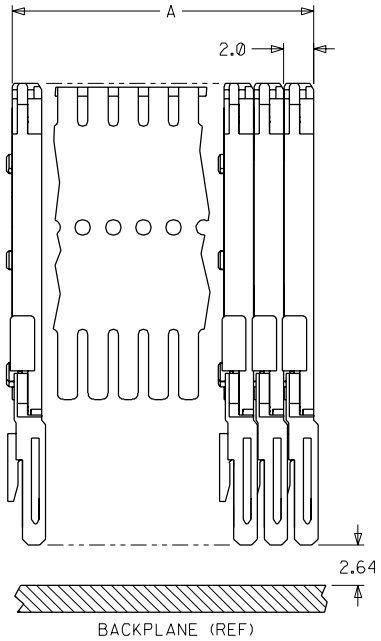
NOTES: (UNLESS OTHERWISE SPECIFIED)

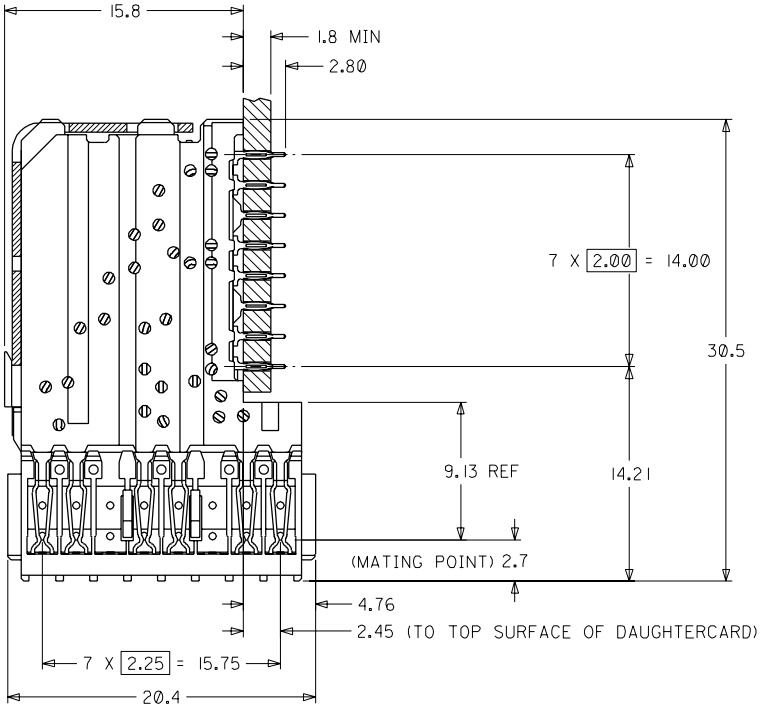
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0.
   TERMINALS - HIGH PERFORMANCE COPPER ALLOY.
2. FINISH: SELECTIVE GOLD (Au) IN CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS NICKEL (Ni) OVERALL.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-74031-999 FOR PERFORMANCE SPECIFICATIONS.
4. SIGNAL WAFERS SUPPLIED ON STAINLESS STEEL STIFFENER IN GROUPS OF 10 OR 25 ONLY.

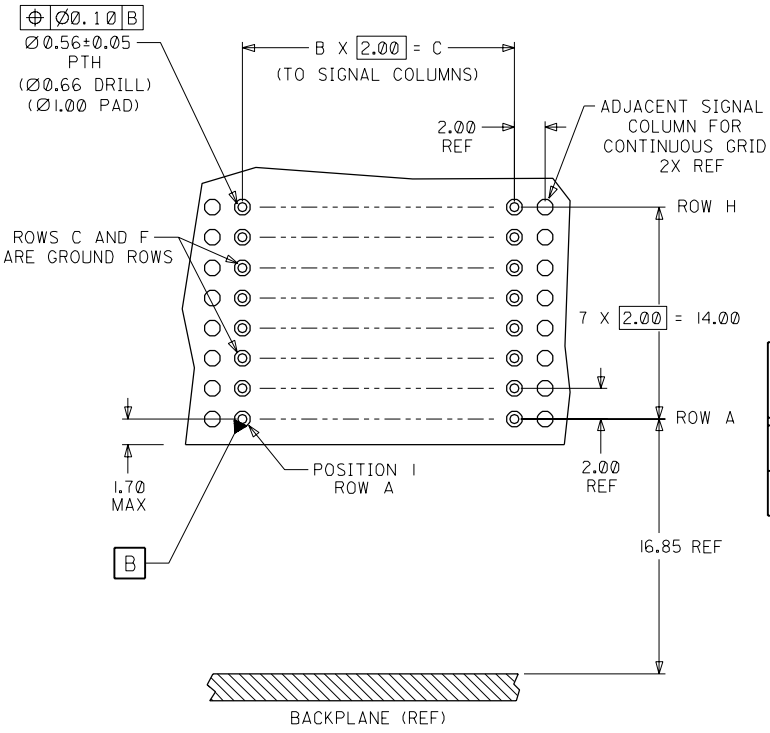
MATERIAL NUMBER	MINIMUM GOLD PLATING	WAFER PLASTIC COLOR
74681-0001	0.00076mm (30uIN)	BLACK
74681-0051	0.00127mm (50uIN)	GRAY



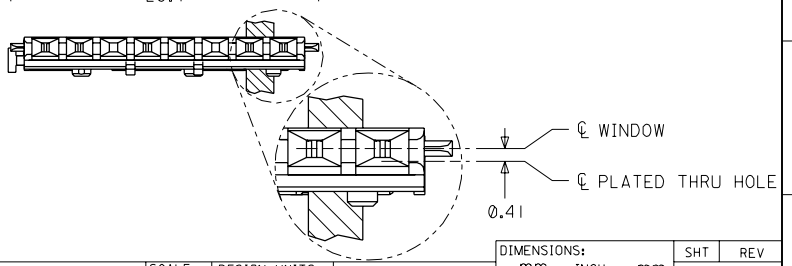








NUMBER OF SIGNAL WAFERS	A	B	C
10	20.0	9	18.00
25	50.0	24	48.00



DAUGHTERCARD HOLE PATTERN
(CONNECTOR SIDE)

INITIAL RELEASE	EC NO. UDT2001-1132	DRWN: LAURX 01/04/18 CHK: MARTIN 01/04/18 APPR: BIXLER 01/04/18	DESCRIPTION
A			REV

QUALITY SYMBOLS
MAJOR = 0
CRITICAL (C) = 0

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0. --	±. --
3 PLACES	±0. --	±. --
2 PLACES	±0.13	±. --
1 PLACE	±0.25	±. --
ANGULAR: ± 2 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 4 : 1 | DESIGN UNITS ☒mm ☐INCH | THIRD ANGLE PROJECTION | DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE: LAURX 01/04/18
CHECKED BY & DATE: MARTIN 01/04/18
APPROVED BY & DATE: BIXLER 01/04/18

TITLE: VHDM - HSD 8 ROW DAUGHTERCARD SIGNAL WAFER SALES DRAWING

MOLEX INCORPORATED

CAD FILENAME: S7468102.DGN | MATERIAL NO.: SEE CHART | DRAWING NO.: SD-74681-002 | SHEET NO.: 1 OF 1

SIZE C