This document was generated on 05/24/2010

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Part Number: 0311010040
Status: Active
Overview: hdac_64_single_row
Description: H-DAC 64™ 2.54mm (.100") 4 Way Vertical Header Assembly, Polarization A



Series image - Reference only

Documents:

Drawing (PDF)
Application Specification (PDF)
Product Specification PS-31100-0001 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Headers
Series	31101
Application	Wire-to-Board
Comments	Polarization Option A, Black
Overview	hdac_64_single_row
Product Name	H-DAC 64™

Physical

Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
Durability (mating cycles max)	10
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Nickel
Material - Resin	Modified Polystyrene
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.145 In
PC Tail Length (mm)	3.68 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. Interface (mm)	2.54 mm
Plating min: Mating (µin)	60
Plating min: Mating (µm)	1.50
Plating min: Termination (µin)	60
Plating min: Termination (µm)	1.50
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Closed Ends
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +100°C
Termination Interface: Style	Through Hole

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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
31101Series

Mates With
H-DAC 64™, 4 Way Receptacle Assembly
310681010

Electrical

Current - Maximum per Contact	5A, 7A
Voltage - Maximum	500V DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	30
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	250

Material Info

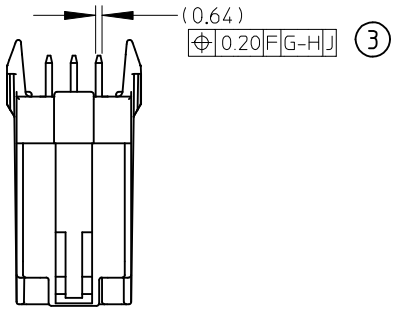
Reference - Drawing Numbers

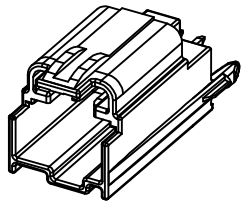
Application Specification	AS-31067-100
Packaging Specification	PK-31300-707
Product Specification	PS-31100-0001
Sales Drawing	SD-31206-003

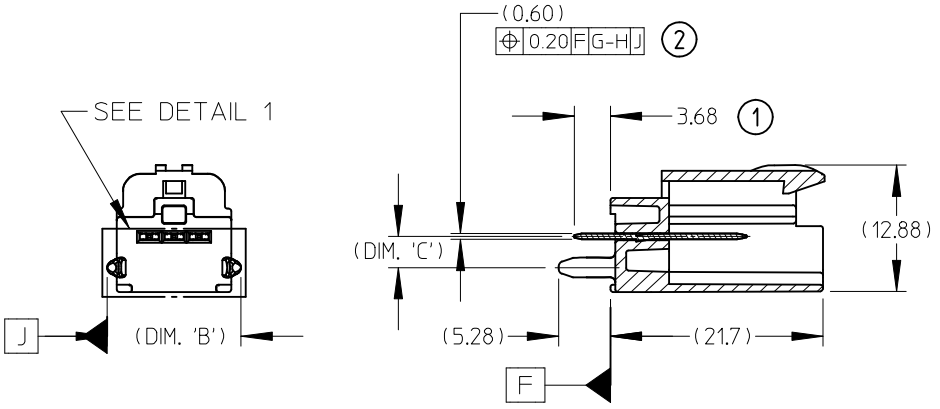
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

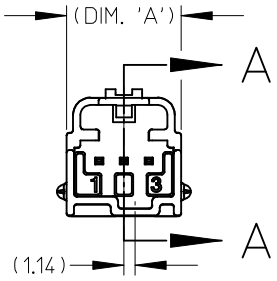
3 WAY VERTICAL
HEADER ASSEMBLY
(POLARIZATION OPTIONS)
VIEWED FROM MATE SIDE



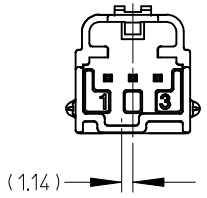




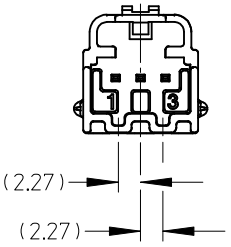
SECTION A-A



OPTION "A"



OPTION "B"
VIEWED FROM MATE SIDE



OPTION "C"

NOTES:

1. MATERIAL:
   HOUSING: SYNDIOTATIC POLYSTRENE (SPS).
   COLOR: SEE CHART.
   TERMINAL: BRASS.
2. FINISH:
   TERMINAL: 60 MICROINCHES MIN NICKEL (Ni)
   UNDERPLATE OVERALL. 60 MICROINCHES MIN
   SELECTIVE TIN (Sn).
3. PRODUCT SPEC NUMBER PS-31100-0001.
4. PACKAGING PER PACKAGING SPEC.: PK-31300-293.
5. MATES WITH SEE CHART.

ENTER DESCRIPTION			
EC NO: UAU2009-0141	DESCRIPTION		
DRWN:COILLON 2008/09/15			
CH'KD:COILLON 2008/09/15			
APPR:SMARCEAU 2008/09/15			
H	REV		

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY	SCALE 2:1	DESIGN UNITS METRIC
DRAWN BY	MDEVITO	DATE	2/02/06
CHECKED BY	GMEYER	DATE	2/02/06
APPROVED BY	GMEYER	DATE	2/02/06
MATERIAL NO.	SEE CHART		

THIRD ANGLE PROJECTION

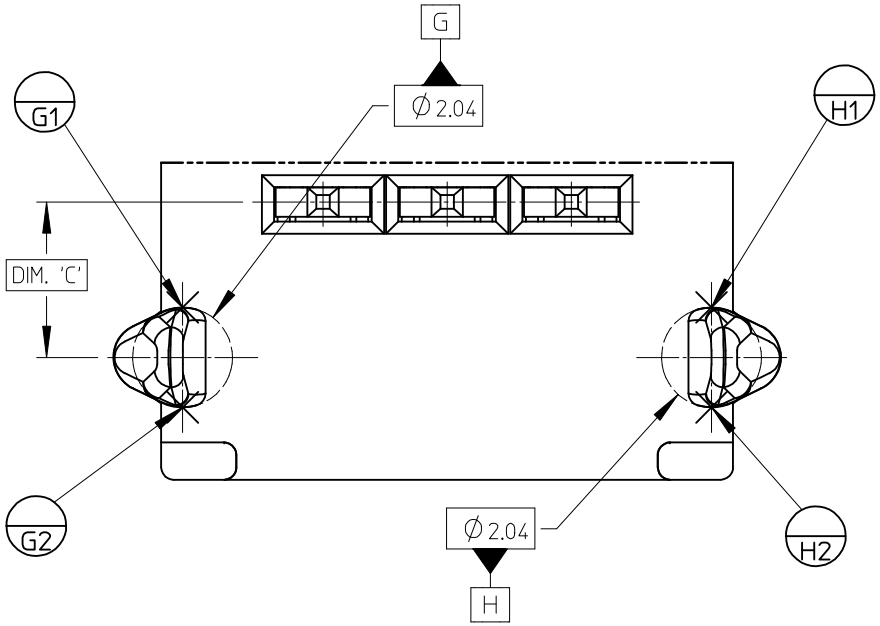
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MOLEX INCORPORATED

DOCUMENT NO. SD-31206-003 SHEET NO. 1 OF 7

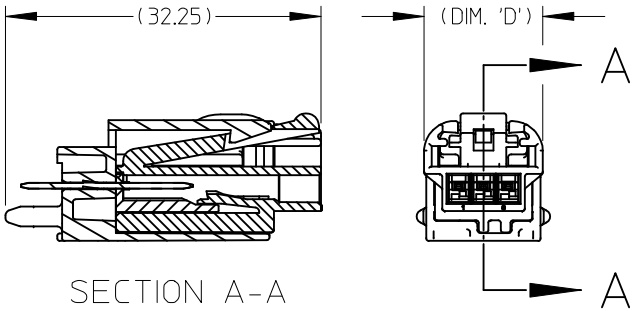
SIZE B

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DETAIL 1
SCALE 10:1

FULLY MATED ASSMBLY



SECTION A-A

ENTER DESCRIPTION
EC NO: UAU2009-0141
DRWN:CDILLON 2008/09/15
CH'KD:CDILLON 2008/09/15
APPR:SMARCEAU 2008/09/15
DESCRIPTION
REV
H

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

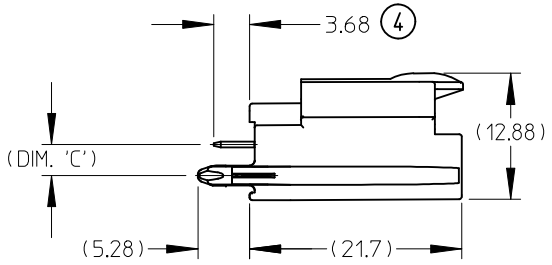
DRAWN BY: MDEVITO DATE: 2/02/06
CHECKED BY: GMEYER DATE: 2/02/06
APPROVED BY: GMEYER DATE: 2/02/06

TITLE: VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING

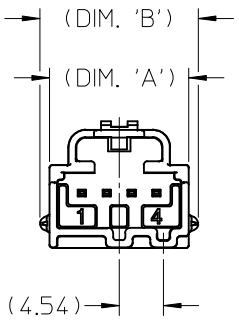
MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-31206-003
SHEET NO.: 2 OF 7
SIZE: B

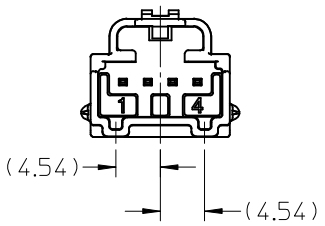
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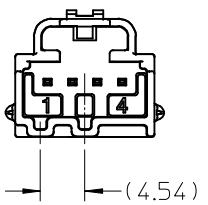
4 WAY VERTICAL
HEADER ASSEMBLY
(POLARIZATION OPTIONS)
VIEWED FROM MATE SIDE



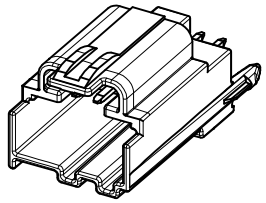
OPTION "A"

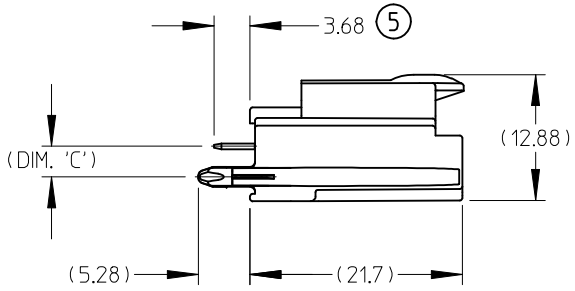


OPTION "B"
VIEWED FROM MATE SIDE

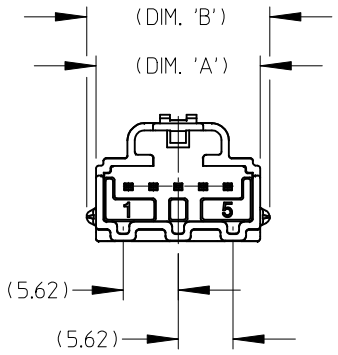


OPTION "C"

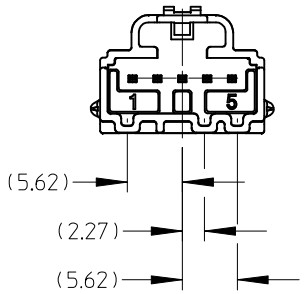




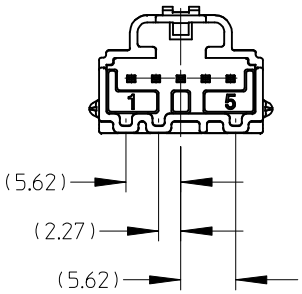
5 WAY VERTICAL
HEADER ASSEMBLY
(POLARIZATION OPTIONS)
VIEWED FROM MATE SIDE



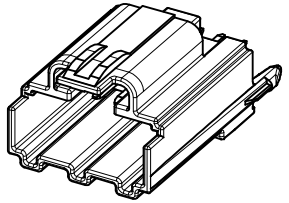
OPTION "A"



OPTION "B"
VIEWED FROM MATE SIDE



OPTION "C"



ENTER DESCRIPTION
EC NO: UAU2009-0141 2008/09/15
DRWN:COILLON 2008/09/15
CHKD:COILLON 2008/09/15
APPR:SMARCEAU 2008/09/15
DESCRIPTION
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QUALITY SYMBOLS
▼=0
Ⓔ=0

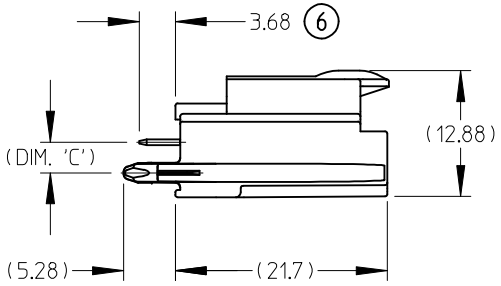
GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

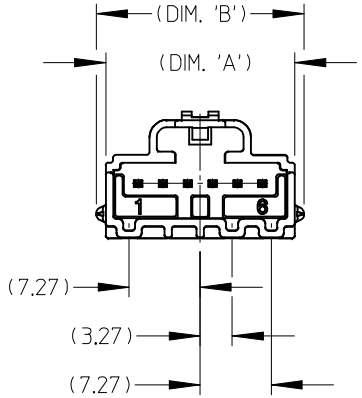
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	1:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	MDEVITO
DATE	2/02/06
CHECKED BY	GMEYER
DATE	2/02/06
APPROVED BY	GMEYER
DATE	2/02/06
MATERIAL NO.	SEE CHART
TITLE	VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING
	MOLEX INCORPORATED
DOCUMENT NO.	SD-31206-003
SHEET NO.	3 OF 7
SIZE	B

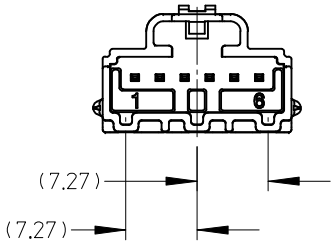
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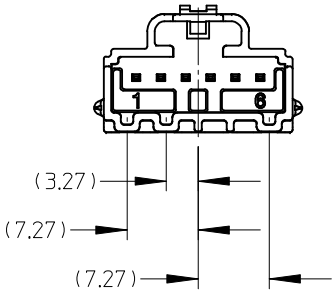
6 WAY VERTICAL
HEADER ASSEMBLY
(POLARIZATION OPTIONS)
VIEWED FROM MATE SIDE



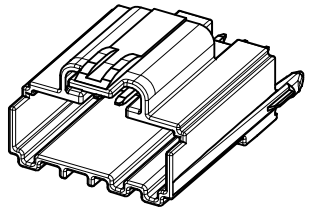
OPTION "A"



OPTION "B"
VIEWED FROM MATE SIDE



OPTION "C"



ENTER DESCRIPTION
EC NO: UAU2009-0141
DRWN:COILLON 2008/09/15
CH'KD:COILLON 2008/09/15
APPR:SMARCEAU 2008/09/15
DESCRIPTION
H
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	MDEVITO	DATE 2/02/06
CHECKED BY	GMEYER	DATE 2/02/06
APPROVED BY	GMEYER	DATE 2/02/06

TITLE: VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-31206-003
SHEET NO.: 4 OF 7

SIZE B

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

BILL OF MATERIALS

FEMALE MATING ASSEMBLY	HEADER ASSEMBLY PART NO.	DESCRIPTION	COLOR	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'
31067-1010	31101-0030 NOT TOOLED	3 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	11.69	13.66	3.18	12.14
			N/A				
31067-1011	31101-0031 NOT TOOLED	3 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY				
			N/A				
31067-1012	31101-0032 NOT TOOLED	3 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN				
			N/A				
31068-1010	31101-0040	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	14.23	16.20	3.18	14.68
			N/A				
31068-1011	31101-0041	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY				
			N/A				
31068-1012	31101-0042	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN				
			N/A				

BILL OF MATERIALS

FEMALE MATING ASSEMBLY	HEADER ASSEMBLY PART NO.	DESCRIPTION	COLOR	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'
31072-1010	31101-0050 NOT TOOLED	5 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	16.77	18.74	3.13	17.22
			N/A				
31072-1011	31101-0051 NOT TOOLED	5 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY				
			N/A				
31072-1012	31101-0052 NOT TOOLED	5 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN				
			N/A				
31073-1010	31101-0060 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	19.31	21.28	3.13	19.76
			N/A				
31073-1011	31101-0061 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY				
			N/A				
31073-1012	31101-0062 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN				
			N/A				

ENTER DESCRIPTION
EC NO: UAU2009-0141 2008/09/15
DRWN:CDILLON 2008/09/15
CH'KD:CDILLON 2008/09/15
APPR:SMARCEAU 2008/09/15
DESCRIPTION
H
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: MDEVITO DATE: 2/02/06
CHECKED BY: GMEYER DATE: 2/02/06
APPROVED BY: GMEYER DATE: 2/02/06

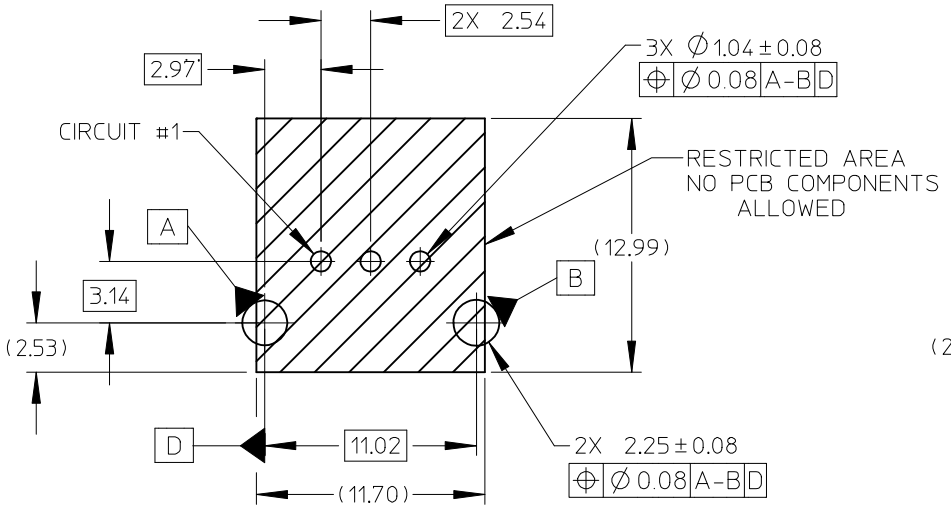
TITLE: VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING

MOLEX INCORPORATED

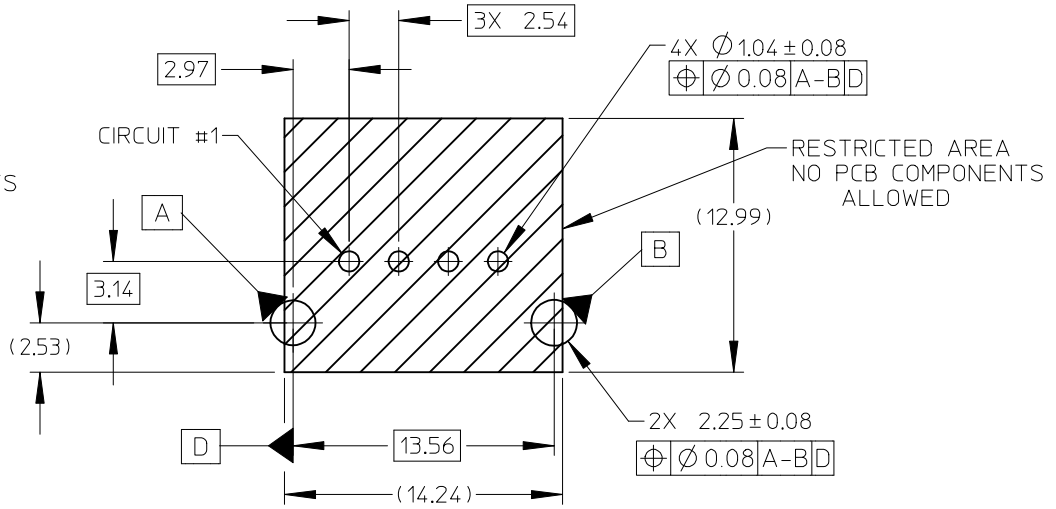
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-31206-003
SHEET NO.: 5 OF 7

SIZE: B

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3 WAY PCB LAYOUT COMPONENT SIDE
RECOMENDED PCB THICKNESS 1.57±0.17



4 WAY PCB LAYOUT COMPONENT SIDE
RECOMENDED PCB THICKNESS 1.57±0.17

ENTER DESCRIPTION
EC NO: UAU2009-0141
DRWN:CDILLON 2008/09/15
CH'KD:CDILLON 2008/09/15
APPR:SMARCEAU 2008/09/15
DESCRIPTION
H
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: MDEVITO DATE: 2/02/06
CHECKED BY: GMEYER DATE: 2/02/06
APPROVED BY: GMEYER DATE: 2/02/06
MATERIAL NO.: SEE CHART

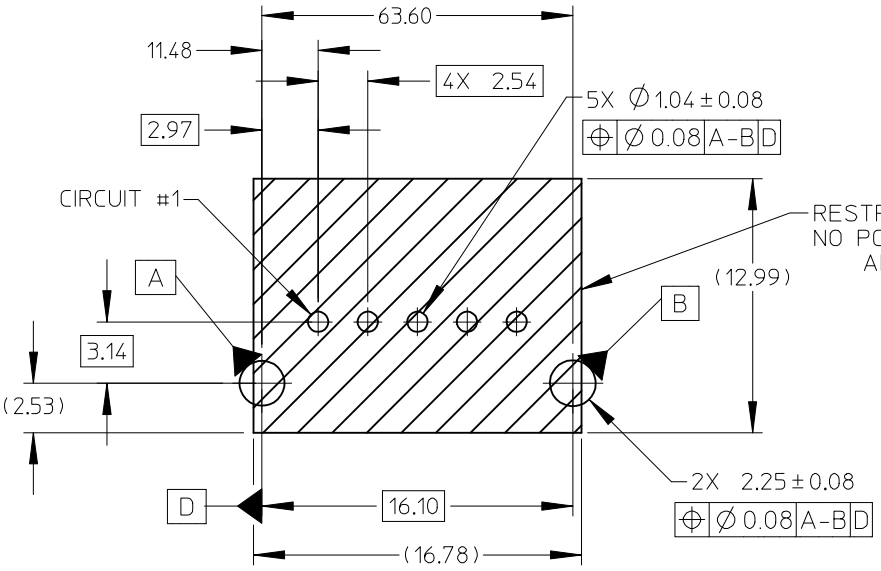
TITLE: VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING

MOLEX INCORPORATED

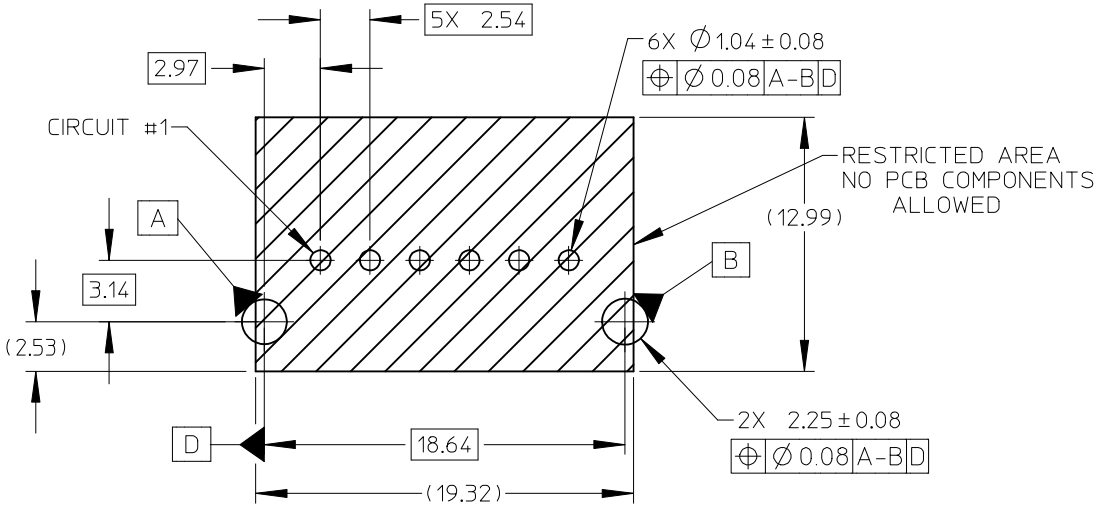
DOCUMENT NO.: SD-31206-003
SHEET NO.: 6 OF 7

SIZE: B

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



5 WAY PCB LAYOUT COMPONENT SIDE
RECOMENDED PCB THICKNESS 1.57± 0.17



6 WAY PCB LAYOUT COMPONENT SIDE
RECOMENDED PCB THICKNESS 1.57± 0.17

ENTER DESCRIPTION
EC NO: UAU2009-0141 2008/09/15
DRWN:CDILLON 2008/09/15
CH:KD:CDILLON
APPR:SMARCEAU 2008/09/15
DESCRIPTION
REV
H

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: MDEVITO DATE: 2/02/06
CHECKED BY: GMEYER DATE: 2/02/06
APPROVED BY: GMEYER DATE: 2/02/06

TITLE: VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-31206-003
SHEET NO.: 7 OF 7
SIZE: B

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