

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0311010040](#)  
**Status:** **Active**  
**Overview:** [hdac 64 single row](#)  
**Description:** H-DAC 64™ 2.54mm (.100") 4 Way Vertical Header Assembly, Polarization A

**Documents:**

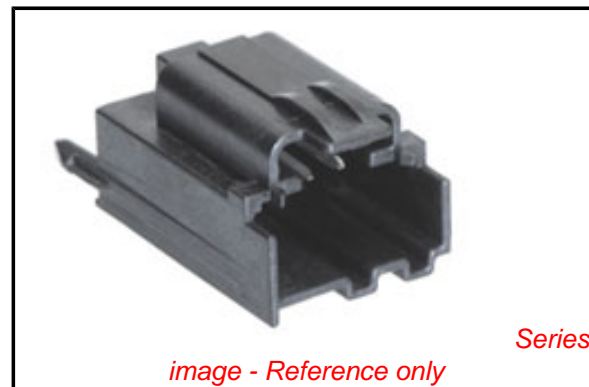
[Drawing \(PDF\)](#) [Product Specification PS-31100-0001 \(PDF\)](#)  
[Application Specification \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	PCB Headers
Series	<a href="#">31101</a>
Application	Wire-to-Board
Comments	Polarization Option A, Black
Overview	<a href="#">hdac 64 single row</a>
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**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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

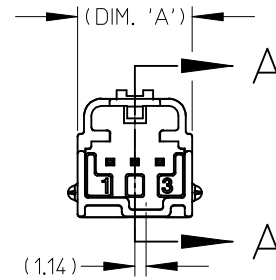
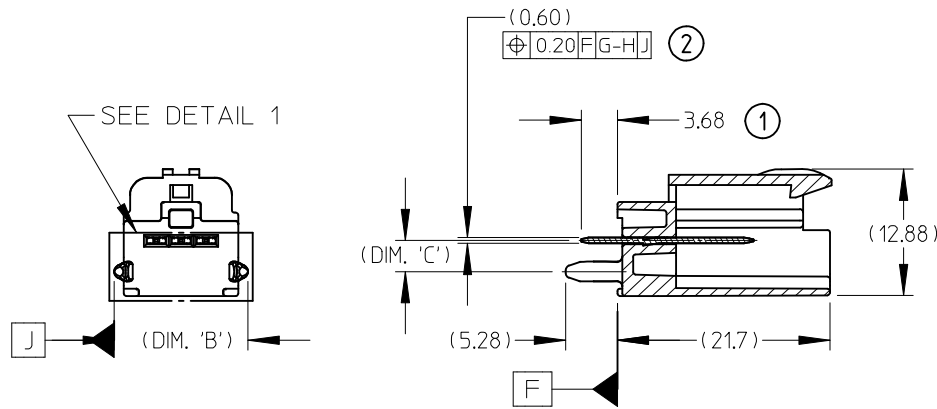
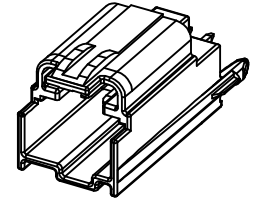
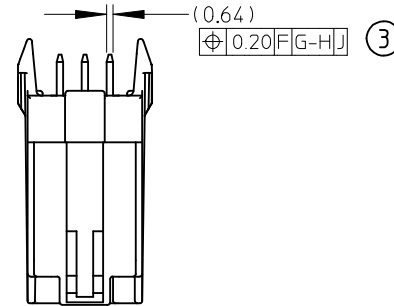
**Material Info****Reference - Drawing Numbers**

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

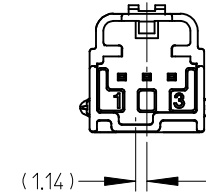
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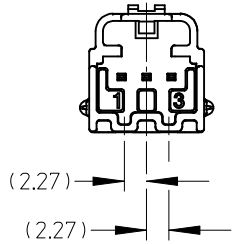
3 WAY VERTICAL  
HEADER ASSEMBLY  
(POLARIZATION OPTIONS)  
VIEWED FROM MATE SIDE



OPTION "A"



OPTION "B"  
VIEWED FROM MATE SIDE



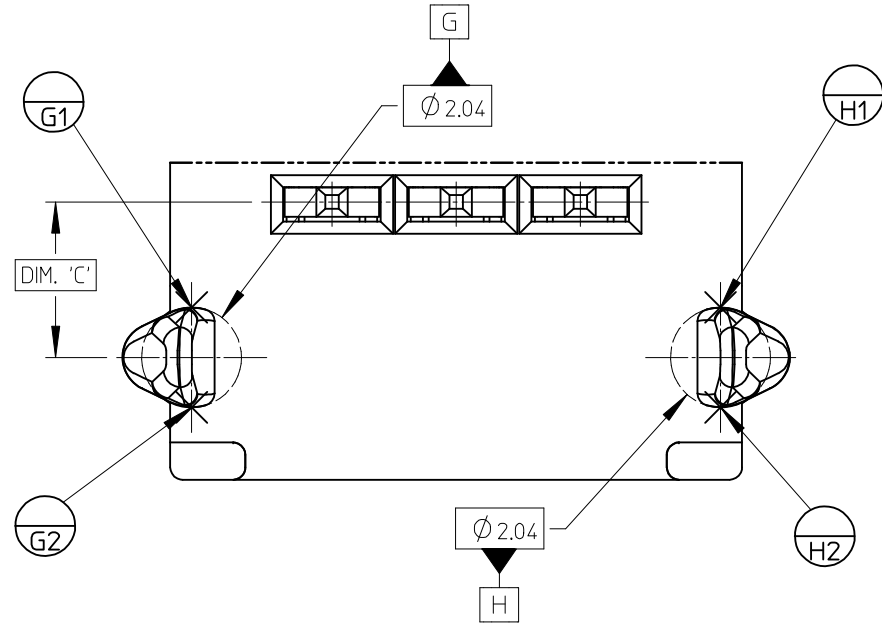
OPTION "C"

NOTES:

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

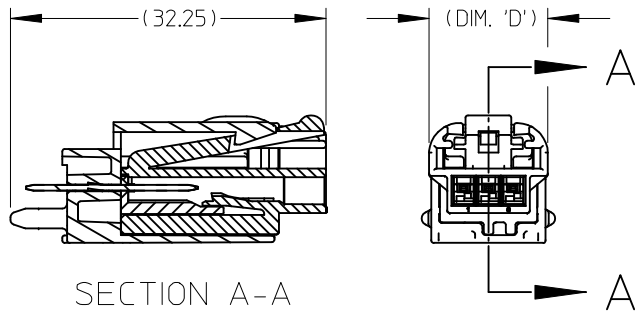
SECTION A-A

<b>ENTER DESCRIPTION</b> EC NO: UAU2009-0141 DRW:CD/ILLON 2008/09/15 CHKD:CD/ILLON 2008/09/15 APPR:SMARCEAU 2008/09/15	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	mm INCH	DRAWN BY MDEVITO	DATE 2/02/06	TITLE <b>VERTICAL HEADER ASSEMBLY                  CHARTED SALES DRAWING</b>				
		3 PLACES ± --- ± ---	2 PLACES ± 0.13 ± ---	CHECKED BY GMEYER	DATE 2/02/06					
		1 PLACE ± 0.25 ± ---	ANGULAR ± 1/2°	APPROVED BY GMEYER	DATE 2/02/06	DOCUMENT NO. <b>SD-31206-003</b>				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. <b>SEE CHART</b>		SHEET NO. 1 OF 7						

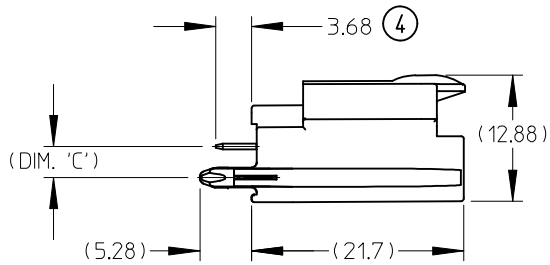


DETAIL 1  
SCALE 10:1

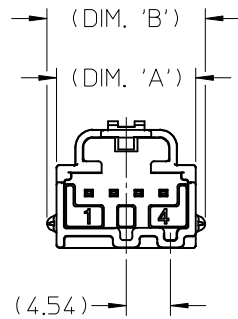
FULLY MATED ASSMBLY



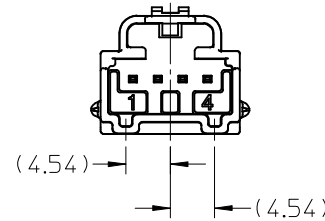
ENTER DESCRIPTION EC NO: UAU2009-0141 DRAWN: CDILLON 2008/09/15 CHKD: CDILLON 2008/09/15 APPR: SMARCEAU 2008/09/15	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	=0 =0	4 PLACES	mm	INCH	DRAWN BY MDEVITO	DATE 2/02/06	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING			
		3 PLACES	± ---	± ---	CHECKED BY GMEYER	DATE 2/02/06				
		2 PLACES	± 0.13	± ---	APPROVED BY GMEYER	DATE 2/02/06	Molex MOLEX INCORPORATED			
1 PLACE	± 0.25	± ---	ANGULAR ± 1/2°		MATERIAL NO. SEE CHART	DOCUMENT NO. SD-31206-003	SHEET NO. 2 OF 7			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



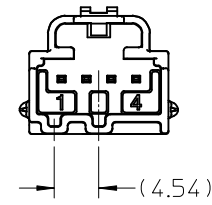
4 WAY VERTICAL  
HEADER ASSEMBLY  
(POLARIZATION OPTIONS)  
VIEWED FROM MATE SIDE



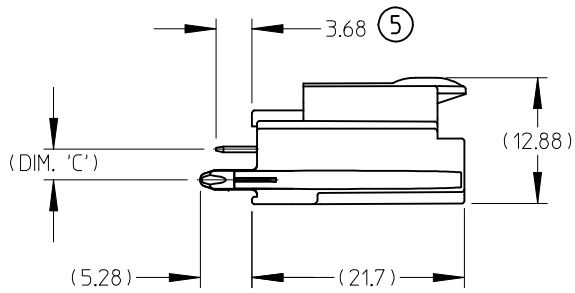
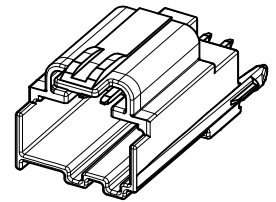
OPTION "A"



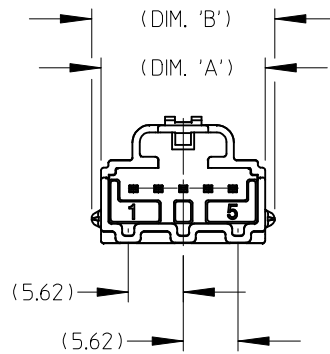
OPTION "B"  
VIEWED FROM MATE SIDE



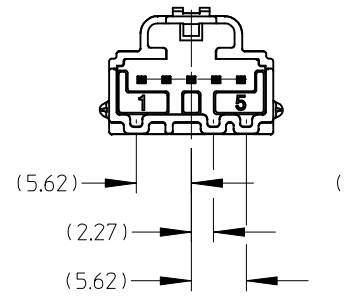
OPTION "C"



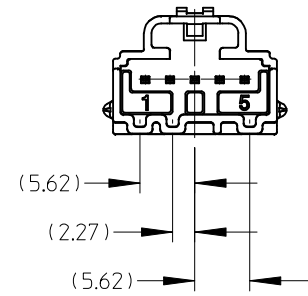
5 WAY VERTICAL  
HEADER ASSEMBLY  
(POLARIZATION OPTIONS)  
VIEWED FROM MATE SIDE



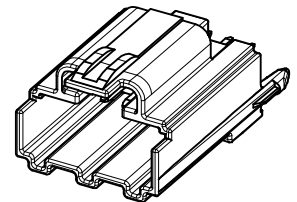
OPTION "A"



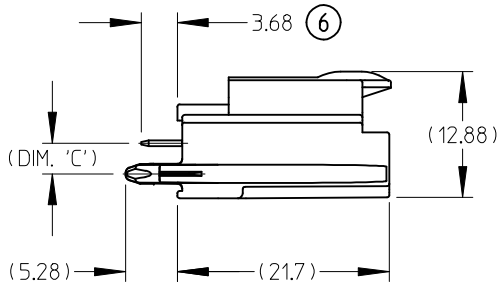
OPTION "B"  
VIEWED FROM MATE SIDE



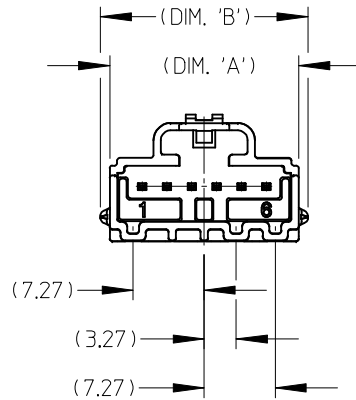
OPTION "C"



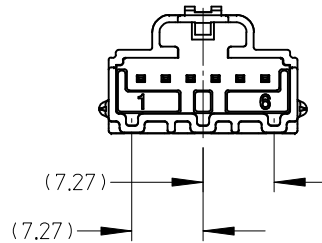
ENTER DESCRIPTION EC NO: UAU2009-0141 DRWN:CDILLON 2008/09/15 CHKD:CDILLON 2008/09/15 APPR:SMARCEAU 2008/09/15 H	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.13 ± ---	1 PLACE ± 0.25 ± ---	DRAWN BY MDEVITO	DATE 2/02/06	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING		
		ANGULAR ±1/2°				CHECKED BY GMEYER	DATE 2/02/06			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE CHART	DATE 2/02/06	MOLEX INCORPORATED	DOCUMENT NO. SD-31206-003	SHEET NO. 3 OF 7
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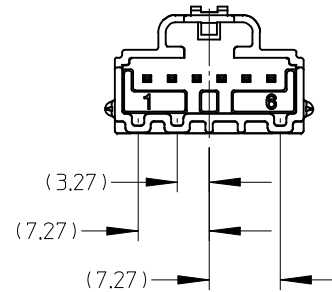
6 WAY VERTICAL  
HEADER ASSEMBLY  
(POLARIZATION OPTIONS)  
VIEWED FROM MATE SIDE



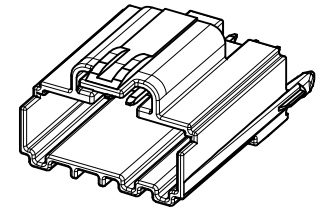
OPTION "A"



OPTION "B"  
VIEWED FROM MATE SIDE



OPTION "C"



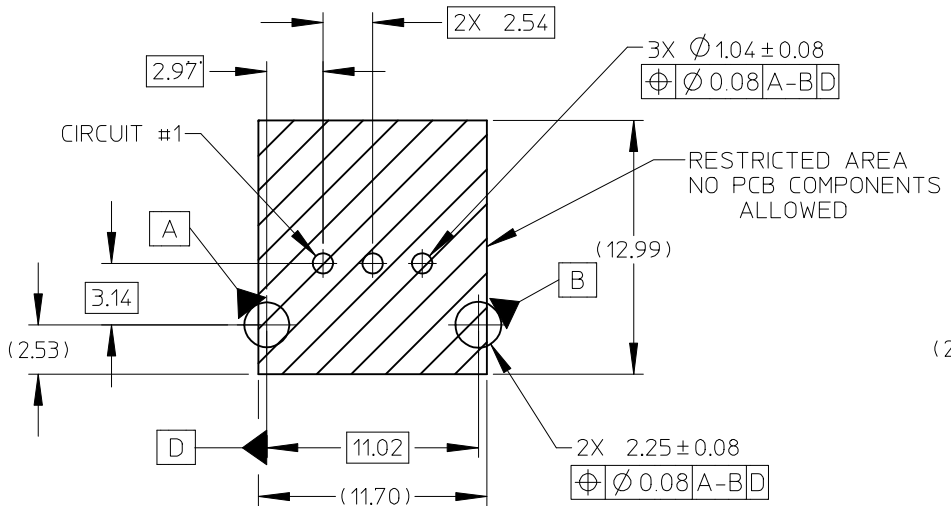
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		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± ---	mm INCH	DRAWN BY MDEVITO	DATE 2/02/06	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING			
		ANGULAR ± 1/2°		CHECKED BY GMEYER	DATE 2/02/06	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY GMEYER	DATE 2/02/06	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-31206-003	SHEET NO. 4 OF 7	

BILL OF MATERIALS

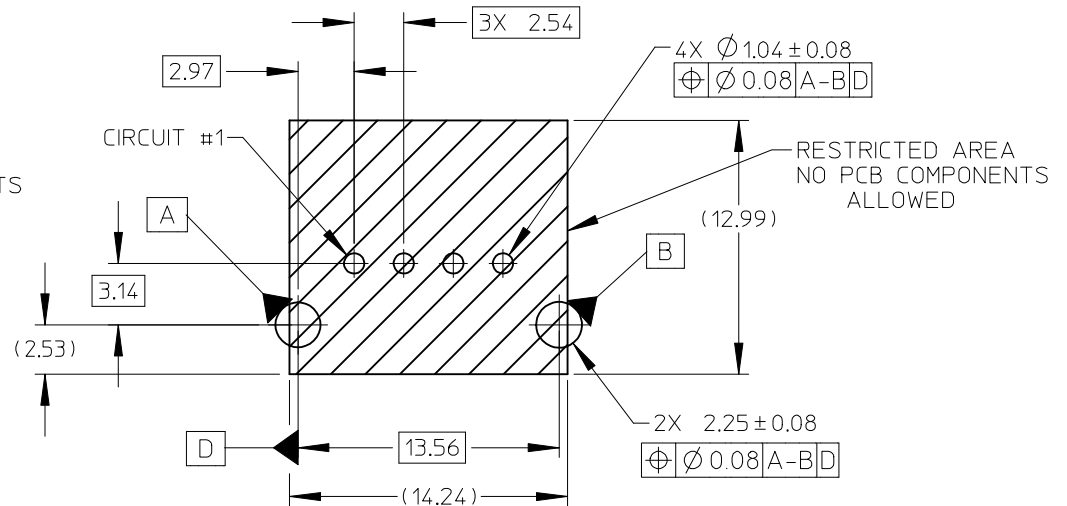
BILL OF MATERIALS

FEMALE MATING ASSEMBLY	HEADER ASSEMBLY PART NO.	DESCRIPTION	COLOR	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	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	31072-1010	31101-0050 NOT TOOLED	5 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	16.77	18.74	3.13	17.22
			N/A								N/A				
			GRAY								GRAY				
31067-1011	31101-0031 NOT TOOLED	3 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY	14.23	16.20	3.18	14.68	31073-1010	31101-0060 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	19.31	21.28	3.13	19.76
			N/A								N/A				
31067-1012	31101-0032 NOT TOOLED	3 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN	14.23	16.20	3.18	14.68	31073-1011	31101-0061 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY	19.31	21.28	3.13	19.76
			N/A								N/A				
31068-1010	31101-0040	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	14.23	16.20	3.18	14.68	31073-1012	31101-0062 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN	19.31	21.28	3.13	19.76
			N/A								N/A				
31068-1011	31101-0041	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY	14.23	16.20	3.18	14.68	31073-1011	31101-0061 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"	GRAY	19.31	21.28	3.13	19.76
			N/A								N/A				
31068-1012	31101-0042	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN	14.23	16.20	3.18	14.68	31073-1012	31101-0062 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN	19.31	21.28	3.13	19.76
			N/A								N/A				

<b>ENTER DESCRIPTION</b> EC NO: UAU2009-0141 DRWN:CDILLON 2008/09/15 CHKD:CDILLON 2008/09/15 APPR:SMARCEAU 2008/09/15 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°	DIMENSION STYLE <b>MM ONLY</b> DRAWN BY DATE MDEVITO 2/02/06 CHECKED BY DATE GMEYER 2/02/06 APPROVED BY DATE GMEYER 2/02/06	SCALE <b>1:1</b> DESIGN UNITS <b>METRIC</b> THIRD ANGLE PROJECTION	TITLE <b>VERTICAL HEADER ASSEMBLY                  CHARTED SALES DRAWING</b>
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. <b>SEE CHART</b>	DOCUMENT NO. <b>SD-31206-003</b>	SHEET NO. <b>5 OF 7</b>
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	MOLEX INCORPORATED				
	Molex logo				



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



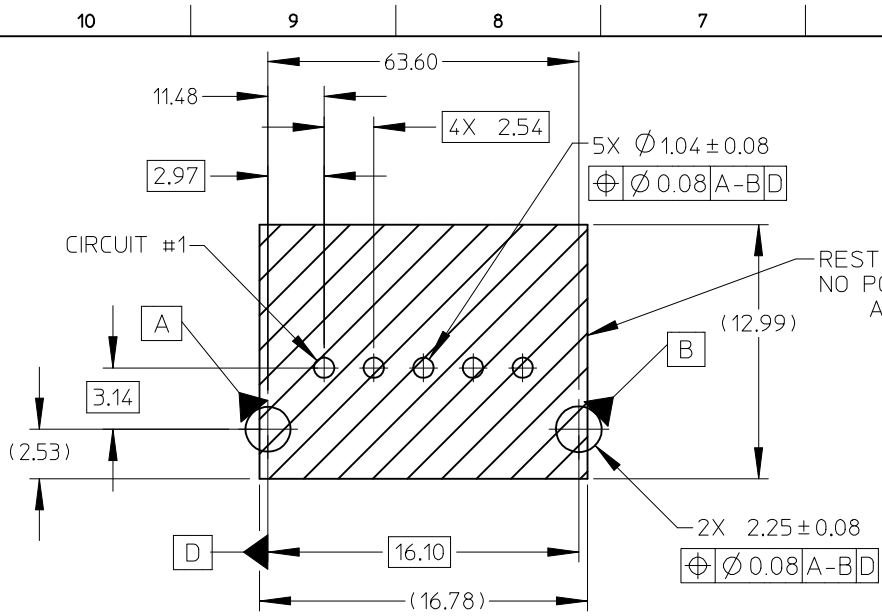
4 WAY PCB LAYOUT COMPONENT SIDE  
RECOMENDED PCB THICKNESS 1.57 ± 0.17

<b>ENTER DESCRIPTION</b> EC NO: UAU2009-0141 DRAWN: CDILLON 2008/09/15 CHKD: CDILLON 2008/09/15 APPR: SMARCEAU 2008/09/15	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	DRAWN BY MDEVITO	DATE 2/02/06	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING				
		3 PLACES ± --- ± ---	CHECKED BY GMEYER	DATE 2/02/06	MATERIAL NO.				
		2 PLACES ± 0.13 ± ---	APPROVED BY GMEYER	DATE 2/02/06	DOCUMENT NO. SD-31206-003				
		1 PLACE ± 0.25 ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART	SHEET NO. 6 OF 7			

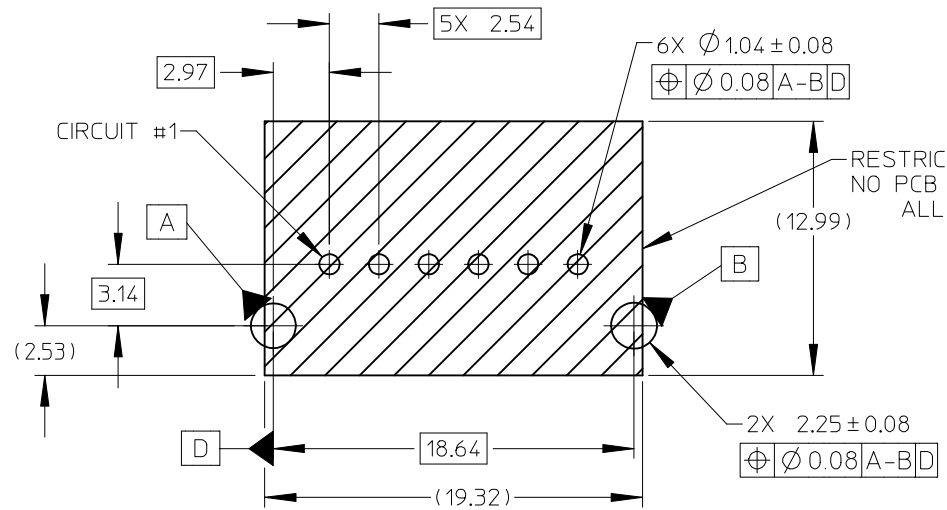
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5 WAY PCB LAYOUT COMPONENT SIDE  
RECOMENDED PCB THICKNESS 1.57±0.17



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

<b>ENTER DESCRIPTION</b> EC NO: UAU2009-0141 DRAWN: COILLON 2008/09/15 CHKD: COILLON 2008/09/15 APPR: SMARCEAU 2008/09/15 REV	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b> mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2°	<b>DIMENSION STYLE</b> MM ONLY DRAWN BY DATE MDEVITO 2/02/06 CHECKED BY DATE GMEYER 2/02/06 APPROVED BY DATE GMEYER 2/02/06	SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART SIZE B	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING MOLEX INCORPORATED DOCUMENT NO. SD-31206-003 SHEET NO. 7 OF 7	
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				