

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0311010041](#)
Status: **Active**
Overview: [hdac 64 single row](#)
Description: H-DAC 64™ 2.54mm (.100") 4 Way Vertical Header Assembly, Polarization B

Documents:

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

General

Product Family	PCB Headers
Series	31101
Application	Wire-to-Board
Comments	Polarization Option B, Gray
Overview	hdac 64 single row
Product Name	H-DAC 64™

Physical

Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Gray
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

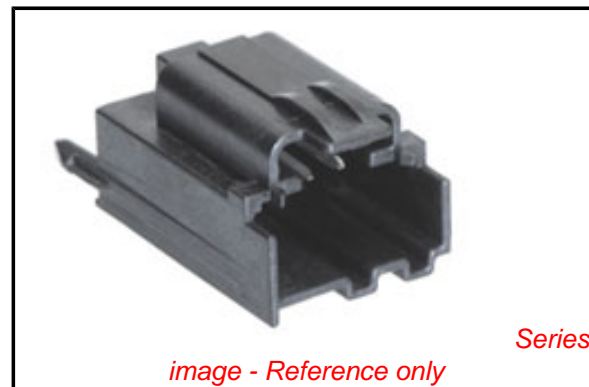


image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status
Not Reviewed**

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
[310681011](#)

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	40
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

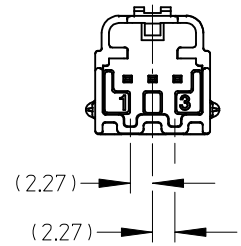
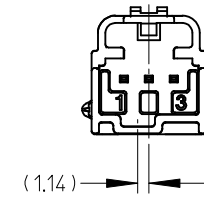
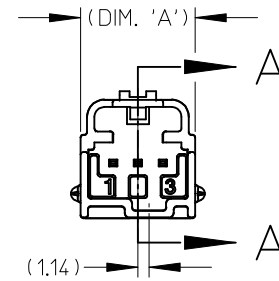
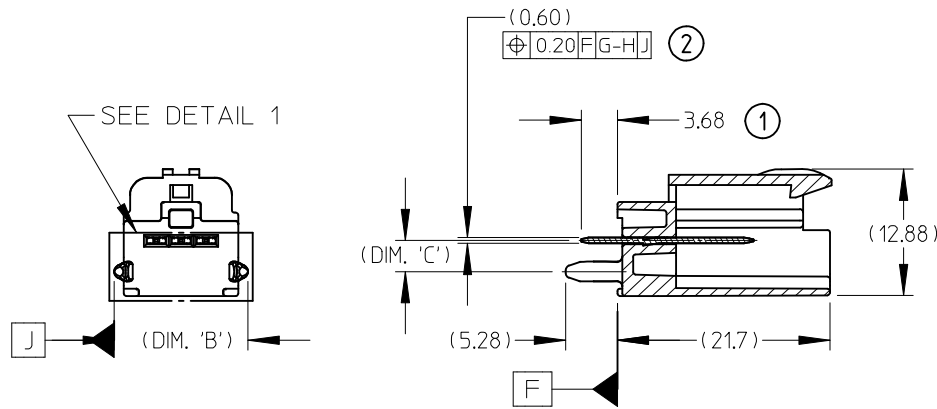
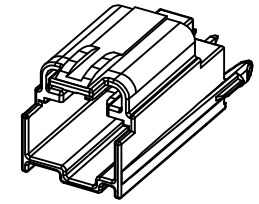
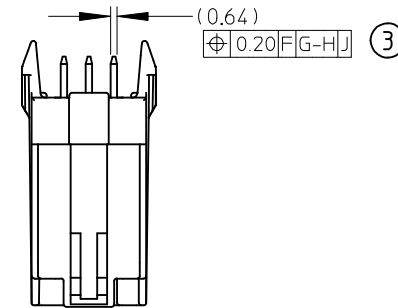
Material Info**Reference - Drawing Numbers**

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

This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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



OPTION "A"

OPTION "B"
VIEWED FROM MATE SIDE

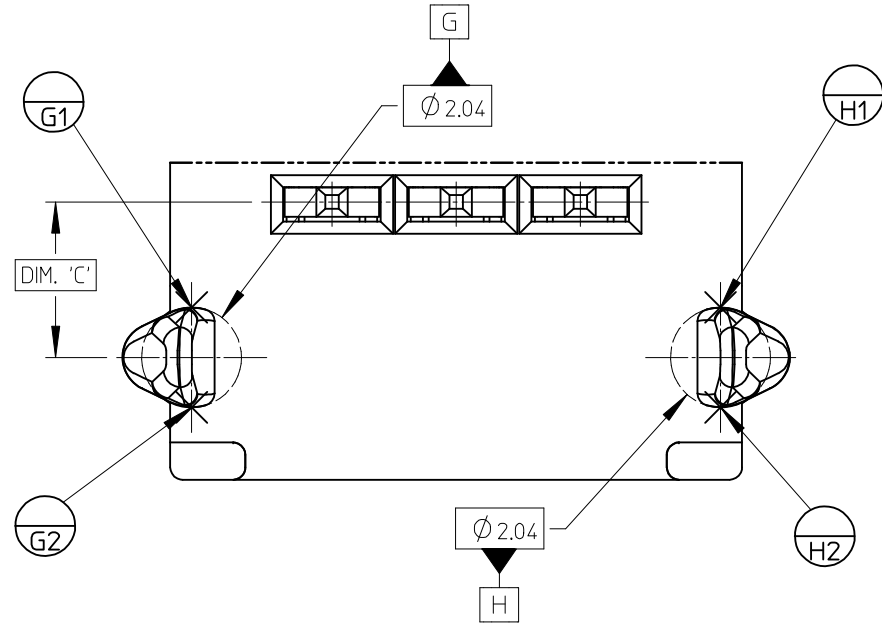
OPTION "C"

NOTES:

1. MATERIAL:
HOUSING: SYNDIOTATIC POLYSTYRENE (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.

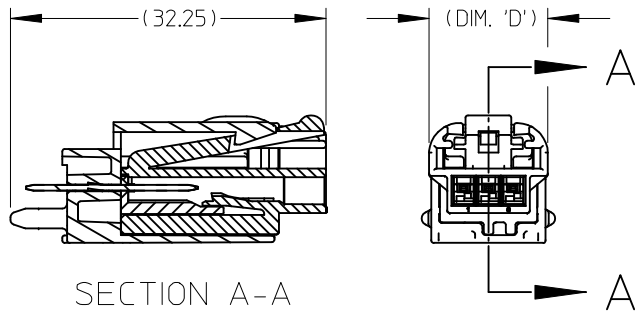
SECTION A-A

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

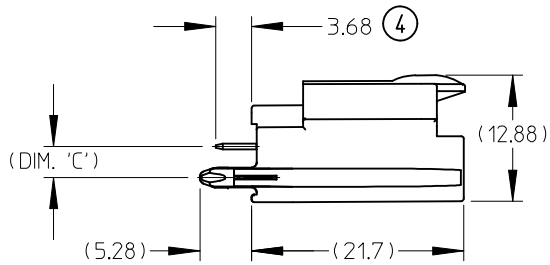


DETAIL 1
SCALE 10:1

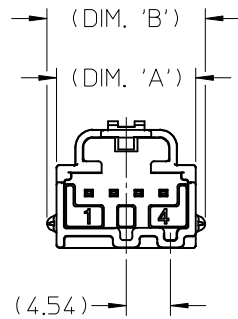
FULLY MATED ASSMBLY



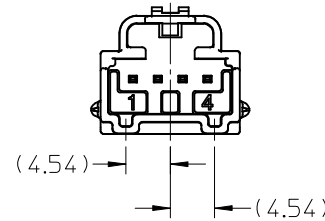
ENTER DESCRIPTION EC NO: UAU2009-0141 DRAWN: CDILLON 2008/09/15 CHKD: CDILLON 2008/09/15 APPR: SMARCEAU 2008/09/15	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	▼=0 ∇=0	mm	INCH	DRAWN BY MDEVITO	DATE 2/02/06	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING			
				CHECKED BY GMEYER	DATE 2/02/06				
					APPROVED BY GMEYER	DATE 2/02/06	Molex MOLEX INCORPORATED		
		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					



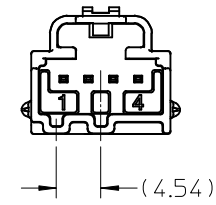
4 WAY VERTICAL
HEADER ASSEMBLY
(POLARIZATION OPTIONS)
VIEWED FROM MATE SIDE



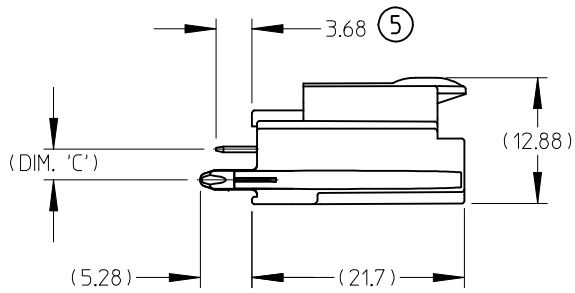
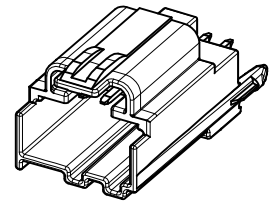
OPTION "A"



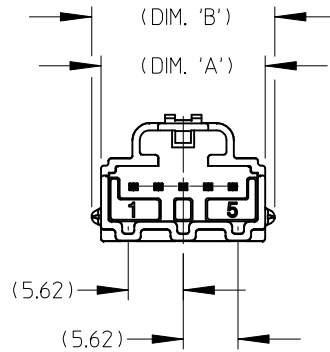
OPTION "B"
VIEWED FROM MATE SIDE



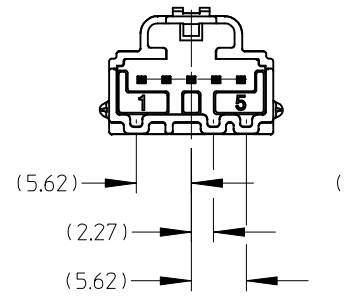
OPTION "C"



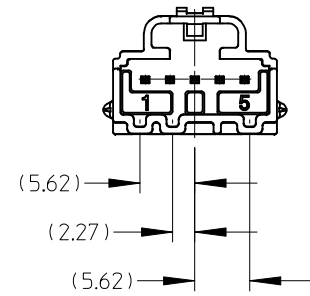
5 WAY VERTICAL
HEADER ASSEMBLY
(POLARIZATION OPTIONS)
VIEWED FROM MATE SIDE



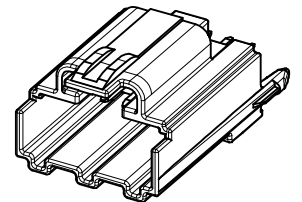
OPTION "A"



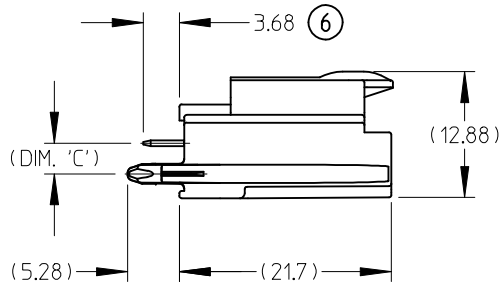
OPTION "B"
VIEWED FROM MATE SIDE



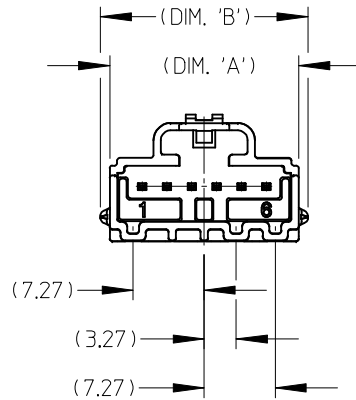
OPTION "C"



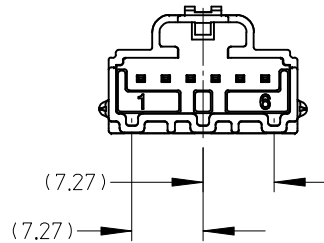
ENTER DESCRIPTION EC NO: UAU2009-0141 DRWN:CDILLON 2008/09/15 CHKD:CDILLON 2008/09/15 APPR:SMARCEAU 2008/09/15 H	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 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				APPROVED BY GMEYER	DATE 2/02/06	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-31206-003	SHEET NO. 3 OF 7
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										



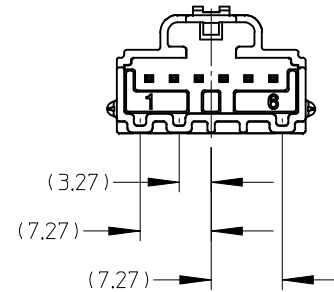
6 WAY VERTICAL
HEADER ASSEMBLY
(POLARIZATION OPTIONS)
VIEWED FROM MATE SIDE



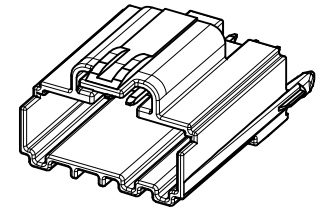
OPTION "A"



OPTION "B"
VIEWED FROM MATE SIDE



OPTION "C"



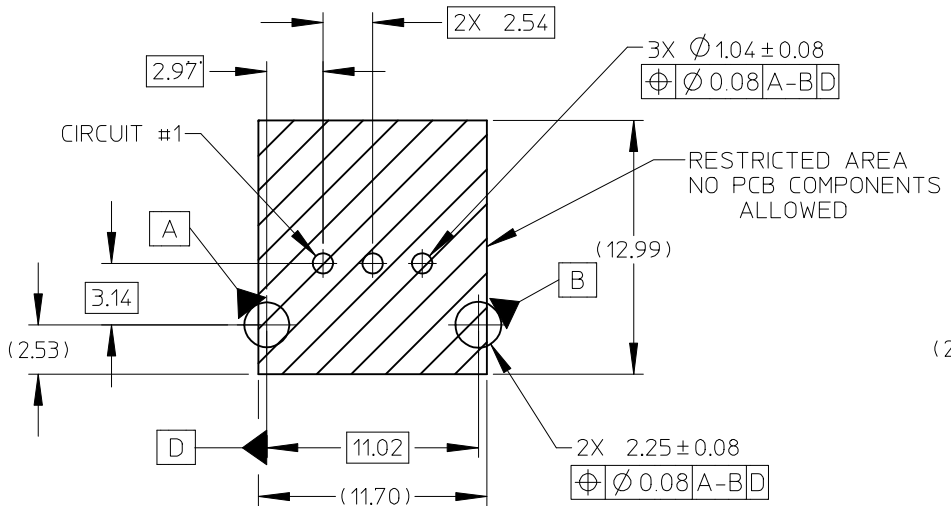
ENTER DESCRIPTION EC NO: UAU2009-0141 DRWN:CDILLON 2008/09/15 CHKD:CDILLON 2008/09/15 APPR:SMARCEAU 2008/09/15	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	DRAWN BY MDEVITO	DATE 2/02/06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

BILL OF MATERIALS

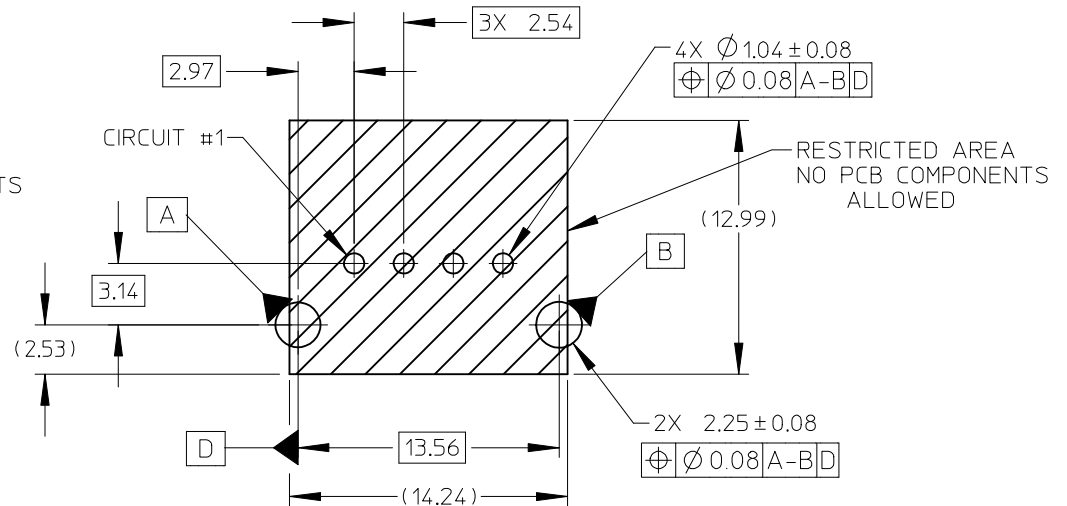
BILL OF MATERIALS

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				
	31067-1011	31101-0031 NOT TOOLED	3 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"						GRAY	31072-1011	31101-0051 NOT TOOLED				
31067-1012	31101-0032 NOT TOOLED	3 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN	31072-1012	31101-0052 NOT TOOLED	5 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN								
31068-1010	31101-0040	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "A"	BLACK	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				
	31068-1011	31101-0041	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"					GRAY	31073-1011	31101-0061 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "B"				
31068-1012	31101-0042	4 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN	31073-1012	31101-0062 NOT TOOLED	6 WAY VERTICAL HEADER ASSEMBLY POLARIZATION "C"	BROWN								

ENTER DESCRIPTION EC NO: UAU2009-0141 DRWN:CDILLON 2008/09/15 CHKD:CDILLON 2008/09/15 APPR:SMARCEAU 2008/09/15 REV	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING			
	3 PLACES	± ---	± ---	MDEVITO	2/02/06				
	2 PLACES	± 0.13	± ---	CHECKED BY	DATE	MOLEX INCORPORATED			
	1 PLACE	± 0.25	± ---	GMEYER	2/02/06				
ANGULAR ±1/2°			APPROVED BY	DATE	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-31206-003		SHEET NO. 5 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						

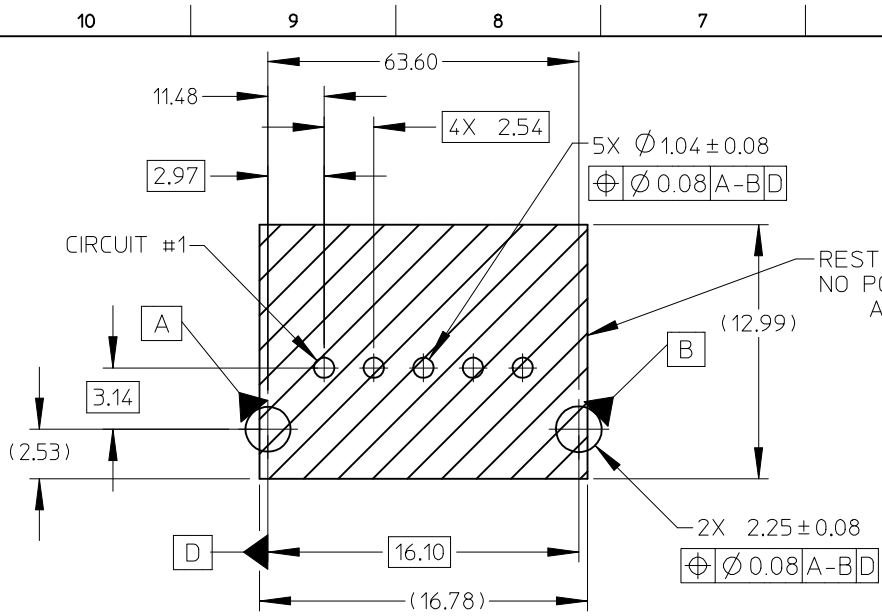


3 WAY PCB LAYOUT COMPONENT SIDE
RECOMENDED PCB THICKNESS 1.57 ± 0.17

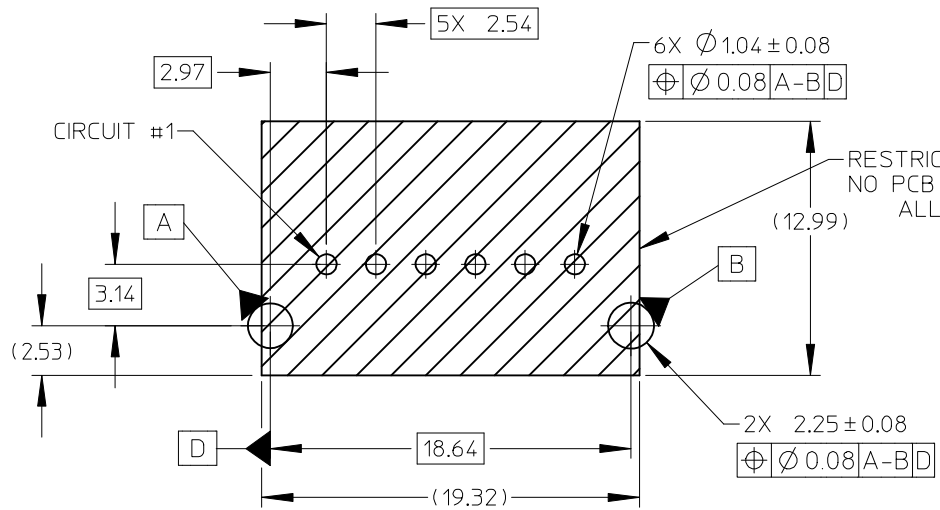


4 WAY PCB LAYOUT COMPONENT SIDE
RECOMENDED PCB THICKNESS 1.57 ± 0.17

ENTER DESCRIPTION EC NO: UAU2009-0141 DRAWN: CDILLON 2008/09/15 CHKD: CDILLON 2008/09/15 APPR: SMARCEAU 2008/09/15	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE 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					
		2 PLACES ± 0.13 ± ---	APPROVED BY GMEYER	DATE 2/02/06	MOLEX INCORPORATED				
		1 PLACE ± 0.25 ± ---	MATERIAL NO.					DOCUMENT NO. SD-31206-003	SHEET NO. 6 OF 7
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		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 DRAWN: COILLON 2008/09/15 CHKD: COILLON 2008/09/15 APPR: SMARCEAU 2008/09/15	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▼=0 ▽=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2°	MM ONLY	1:1	METRIC	DRAWN BY DATE MDEVITO 2/02/06 CHECKED BY DATE GMEYER 2/02/06 APPROVED BY DATE GMEYER 2/02/06
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	MATERIAL NO. SEE CHART	TITLE VERTICAL HEADER ASSEMBLY CHARTED SALES DRAWING	MOLEX MOLEX INCORPORATED	SHEET NO. 7 OF 7