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Part Number:

0311000040

Status:

Active

Overview:

hdac_64_single_row

Description:

H-DAC 64™ 2.54mm (.100") 4 Way Right Angle Header Assembly, Polarization A

Documents:

Drawing (PDF)

Application Specification (PDF)

Product Specification PS-31100-0001 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	PCB Headers
Series	31100
Application	Wire-to-Board
Comments	Polarization Option A, Black
Overview	hdac_64_single_row
Product Name	N/A

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)	0.139 In
PC Tail Length (mm)	3.52 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

Series

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

31100Series

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)	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-31300-577
Product Specification	PS-31100-0001
Sales Drawing	SD-31197-003

This document was generated on 05/24/2010

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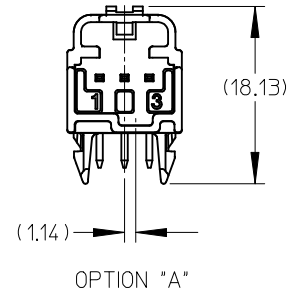
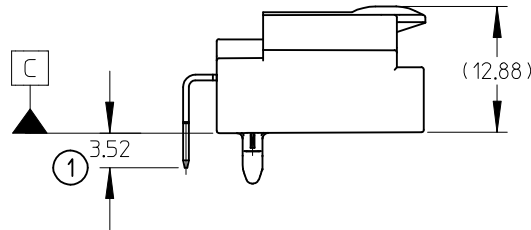
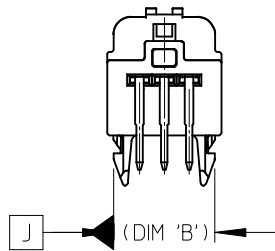
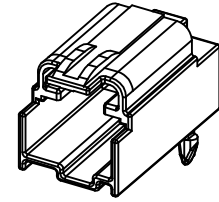
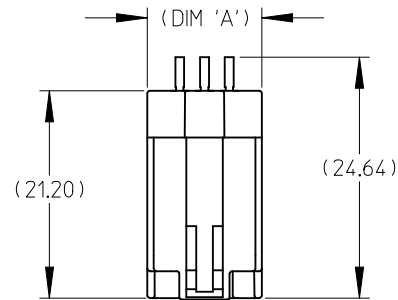
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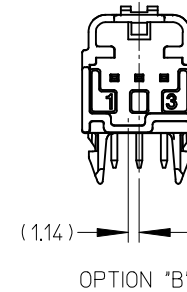
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31197

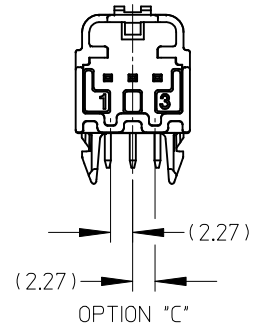
3 WAY RIGHT ANGLE
HEADER ASSEMBLY
(POLARIZATION OPTIONS
VIEWED FROM MATE SIDE)



OPTION "A"

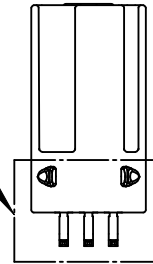


OPTION "B"



OPTION "C"

SEE DETAIL 1



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.: SEE CHART.

5. MATES WITH SEE CHART.

ENTER DESCRIPTION
EC NO: UAU2009-0141
THDRWN:CDILLON 2008/09/15
CHKD:CDILLON 2008/09/15
APPR:SMARCEAU 2008/09/15

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

DRAWN BY	DATE
MDEVITO	01/12/06
CHECKED BY	DATE
BCOURIM	01/12/07
APPROVED BY	DATE
GMEYER	01/12/07

MATERIAL NO.
SEE CHART

SCALE
2:1

DOCUMENT NO.
SD-31197-003

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

RIGHT ANGLE HEADER
ASSEMBLY CHARTED
SALES DRAWING

MOLEX INCORPORATED

SHEET NO.
1 OF 8

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

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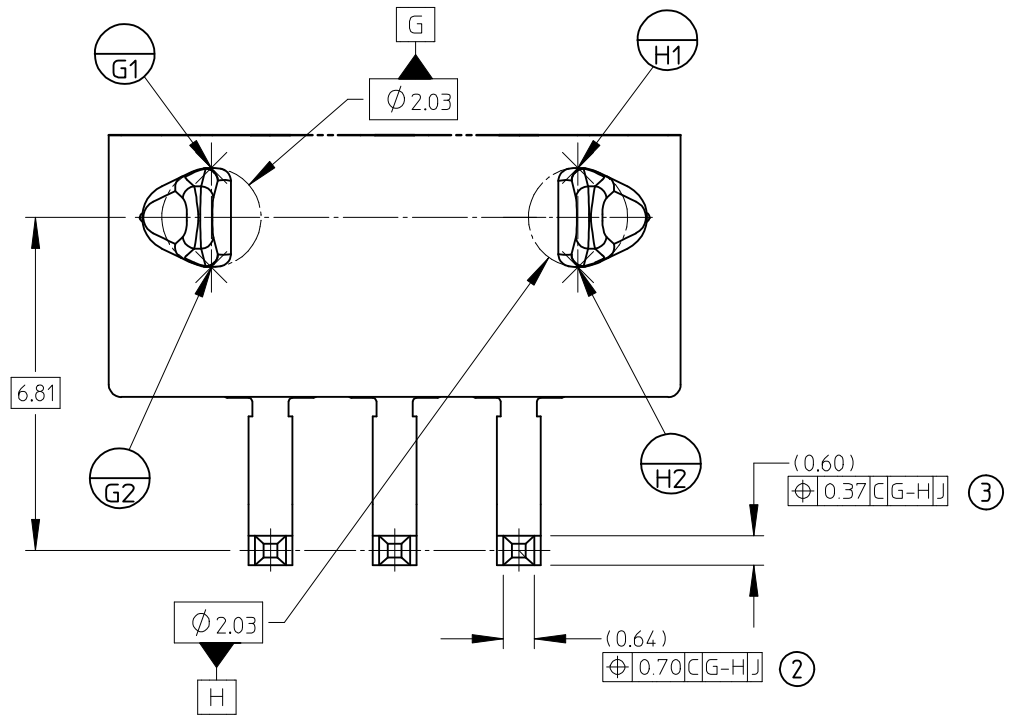
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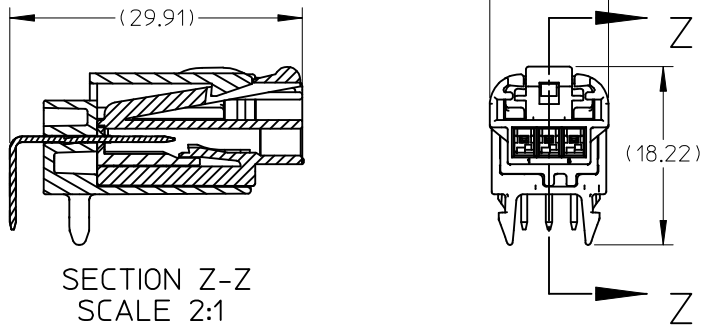
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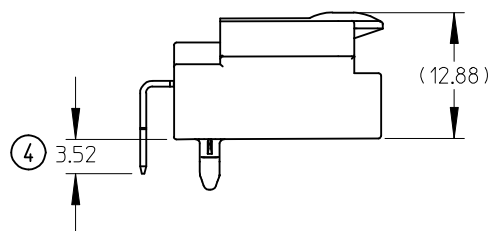


DETAIL1
SCALE 10:1

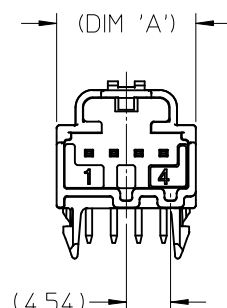


FULLY SEATED ASSEMBLY

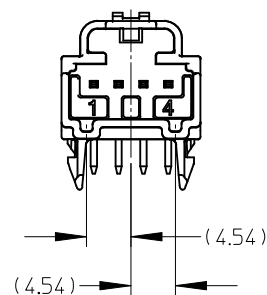
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EC NO: UAU2009-0141				=0		mm		MM ONLY		1:1		METRIC		THIRD ANGLE PROJECTION	
TIDRWA:COILLON 2008/09/15				=0		INCH		DRAWN BY		DATE		TITLE		RIGHT ANGLE HEADER ASSEMBLY CHARTED SALES DRAWING	
CHKD:COILLON 2008/09/15						4 PLACES ± --- ± ---		MDEVITO		01/12/06					
APPR:SMARCEAU 2008/09/15						3 PLACES ± --- ± ---		CHECKED BY		DATE					
						2 PLACES ± 0.13 ± ---		BCOURIM		01/12/07					
						1 PLACE ± 0.25 ± ---		APPROVED BY		DATE					
						ANGULAR ± 1/2°		GMEYER		01/12/07					
								MATERIAL NO.		DOCUMENT NO.					
								SEE CHART		SD-31197-003					
								SIZE B							



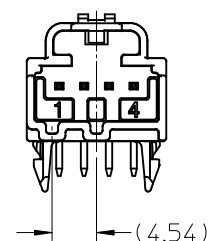
4 WAY RIGHT ANGLE
HEADER ASSEMBLY
(POLARIZATION OPTIONS
VIEWED FROM MATE SIDE)



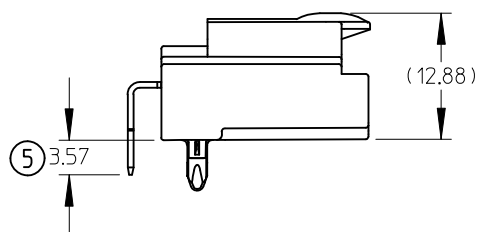
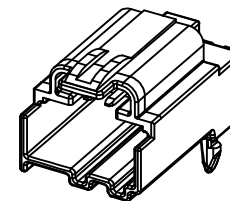
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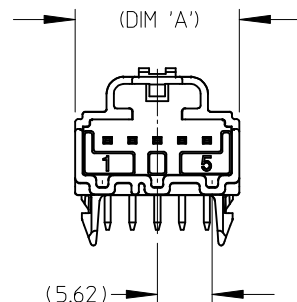
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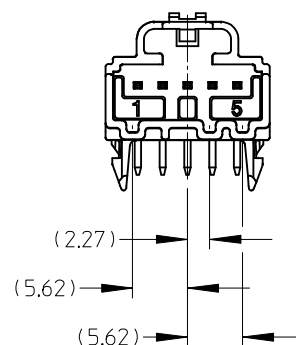
OPTION "C"



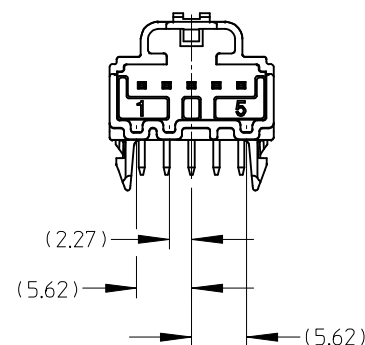
5 WAY RIGHT ANGLE
HEADER ASSEMBLY
(POLARIZATION OPTIONS
VIEWED FROM MATE SIDE)



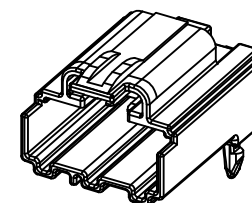
OPTION "A"



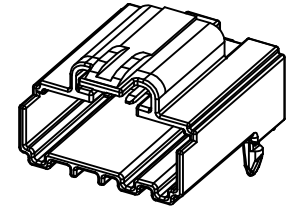
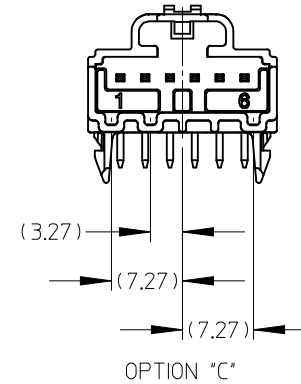
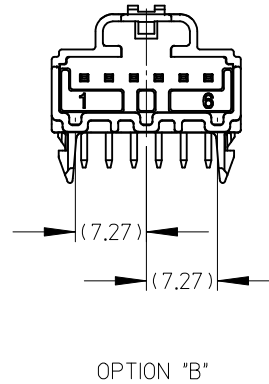
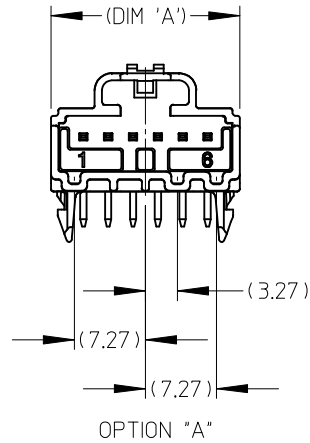
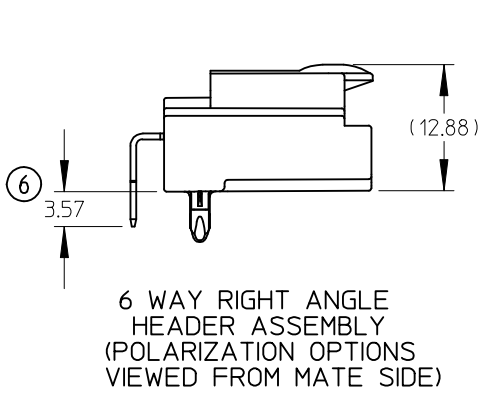
OPTION "B"



OPTION "C"



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 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
					mm	INCH	DRAWN BY MDEVITO	DATE 01/12/06	TITLE RIGHT ANGLE HEADER ASSEMBLY CHARTED SALES DRAWING					
							CHECKED BY BCOURIM	DATE 01/12/07						
							APPROVED BY GMEYER	DATE 01/12/07						MOLEX MOLEX INCORPORATED
				ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.					SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-31197-003					3 OF 8	
REV			SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									



ENTER DESCRIPTION			QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
EC NO: UAU2009-0141							MM ONLY		1:1	METRIC	 RIGHT ANGLE HEADER ASSEMBLY CHARTED SALES DRAWING			
DRAWN: COILLON 2008/09/15			=0		mm INCH		DRAWN BY DATE		TITLE					
CHKD: COILLON 2008/09/15			=0		4 PLACES ± --- ± ---		MDEVITO 01/12/06							
APPR: SMARCEAU 2008/09/15					3 PLACES ± --- ± ---		CHECKED BY DATE		MOLEX INCORPORATED					
					2 PLACES ± 0.13 ± ---		BCOURIM 01/12/07							
					1 PLACE ± 0.25 ± ---		APPROVED BY DATE		 MOLEX INCORPORATED					
					ANGULAR ±1/2°		GMEYER 01/12/07							
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
							SEE CHART		SD-31197-003				4 OF 8	
							SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

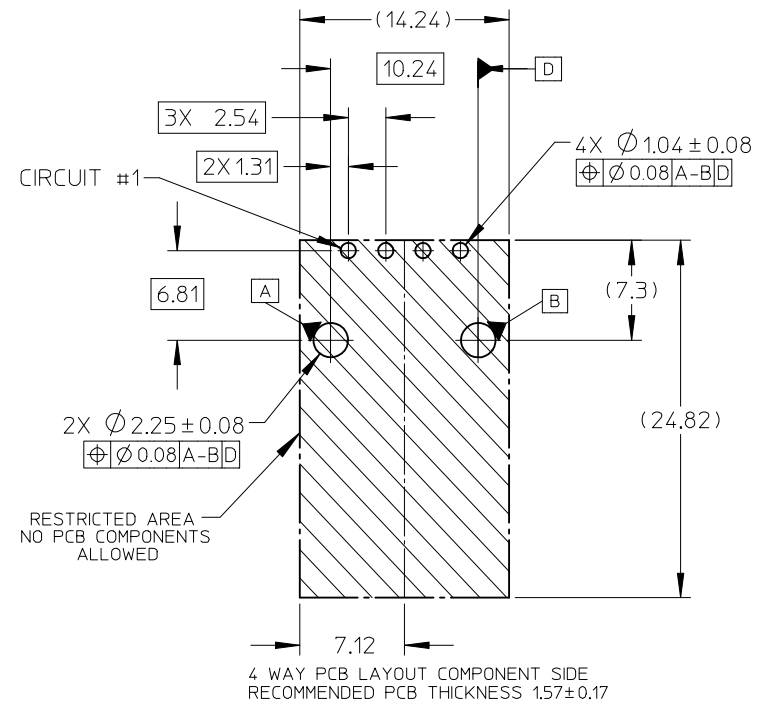
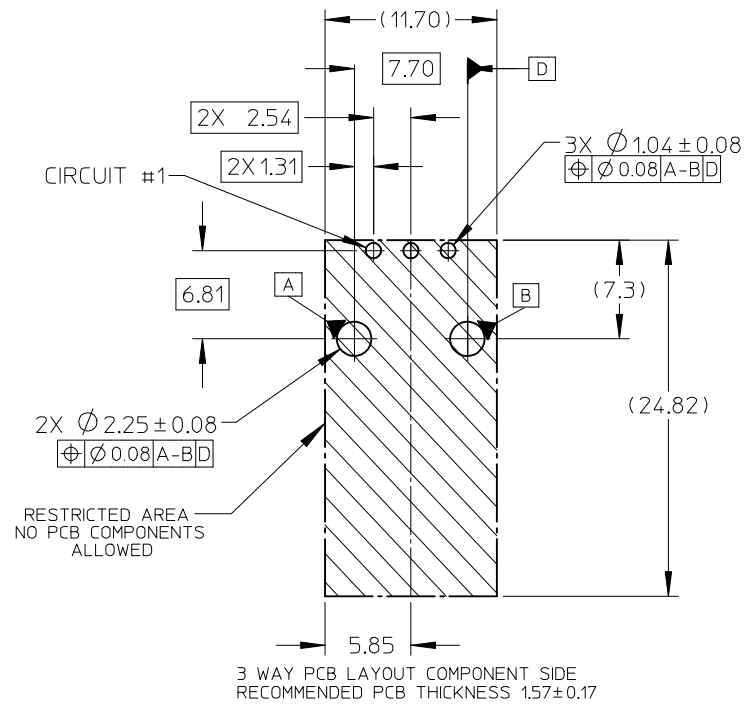
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F	BILL OF MATERIALS										F																																																																																										
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E	31067-1010	31100-0030 NOT TOOLED		3 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "A"	BLACK	11.69	10.33	12.14																																																																																													
	31067-1011	31100-0031 NOT TOOLED		3 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "B"	GRAY	11.69	10.33	12.14																																																																																													
D	31067-1012	31100-0032 NOT TOOLED		3 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "C"	BROWN	11.69	10.33	12.14																																																																																													
	31068-1010	31100-0040	31100-0049	4 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "A"	BLACK	14.23	12.87	14.68																																																																																													
C	31068-1011	31100-0041	31100-0048	4 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "B"	GRAY	14.23	12.87	14.68																																																																																													
	31068-1012	31100-0042	31100-0047	4 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "C"	BROWN	14.23	12.87	14.68																																																																																													
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BILL OF MATERIALS

FEMALE MATING ASSEMBLY	HEADER ASSEMBLY P/N PER DWG. PK-31300-293 (TRAY PKG)	HEADER ASSEMBLY P/N PER DWG. PK-31300-577 (SPEC. TRAY PKG)	DESCRIPTION	COLOR	DIM 'A'	DIM 'B'	DIM 'C'
31072-1010	31100-0050 NOT TOOLED		5 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "A"	BLACK	16.77	15.41	17.22
31072-1011	31100-0051 NOT TOOLED		5 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "B"	GRAY	16.77	15.41	17.22
31072-1012	31100-0052 NOT TOOLED		5 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "C"	BROWN	16.77	15.41	17.22
31073-1010	31100-0060 NOT TOOLED		6 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "A"	BLACK	19.31	17.95	19.76
31073-1011	31100-0061 NOT TOOLED		6 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "B"	GRAY	19.31	17.95	19.76
31073-1012	31100-0062 NOT TOOLED		6 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "C"	BROWN	19.31	17.95	19.76

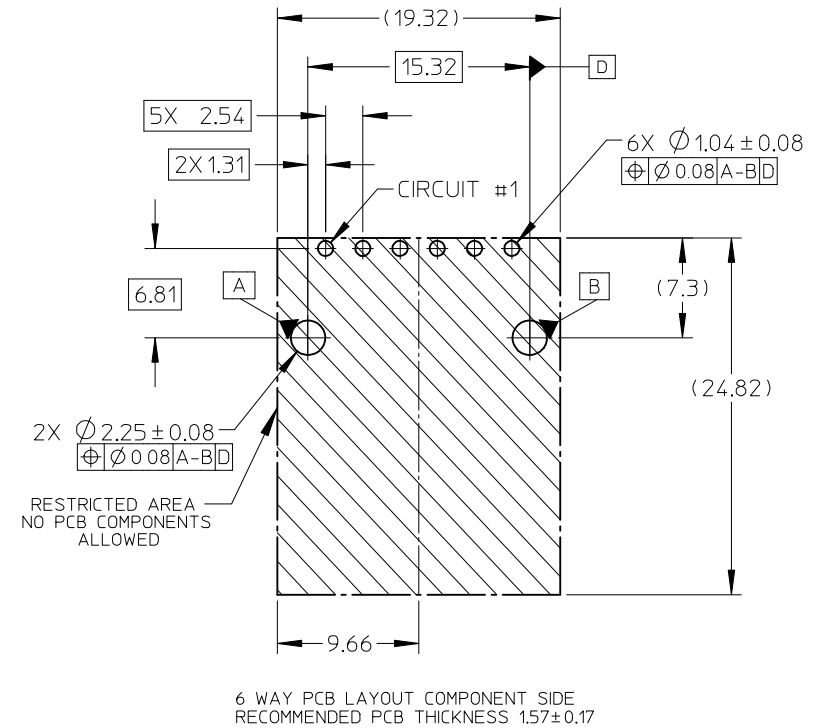
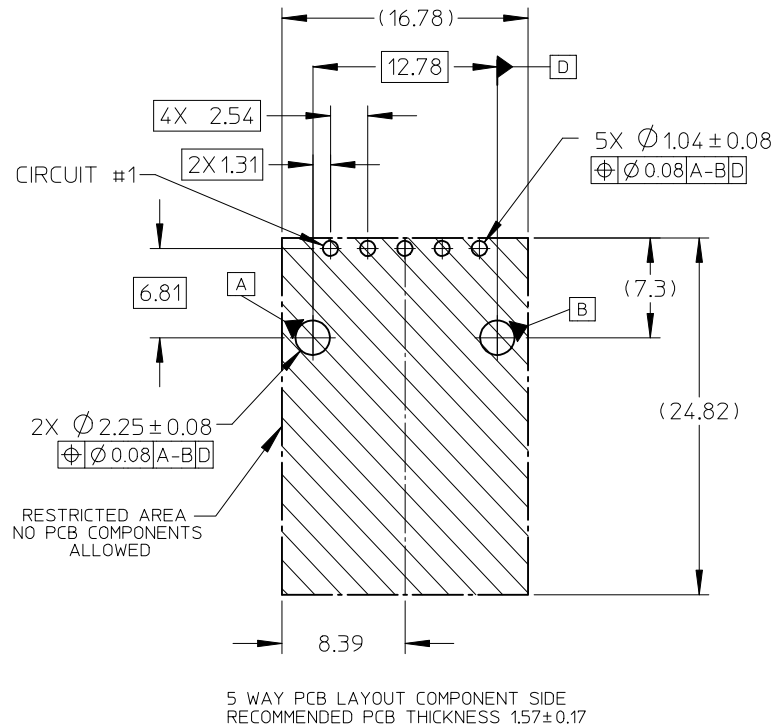
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			mm	INCH	DRAWN BY MDEVITO	DATE 01/12/06	TITLE RIGHT ANGLE HEADER ASSEMBLY CHARTED SALES DRAWING molex MOLEX INCORPORATED DOCUMENT NO. SD-31197-003 SHEET NO. 6 OF 8	
		4 PLACES	± ---	± ---	CHECKED BY BCOURIM	DATE 01/12/07		
		3 PLACES	± ---	± ---	APPROVED BY GMEYER	DATE 01/12/07		
		2 PLACES	± 0.13	± ---	MATERIAL NO. SEE CHART			
1 PLACE	± 0.25	± ---	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	

RECOMMENDED PCB LAYOUT



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) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.13</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± 0.25</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ±1/2°</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.13	± ---	1 PLACE	± 0.25	± ---	ANGULAR ±1/2°			DIMENSION STYLE MM ONLY DRAWN BY DATE MDEVITO 01/12/06 CHECKED BY DATE BCOURIM 01/12/07 APPROVED BY DATE GMEYER 01/12/07 MATERIAL NO. SEE CHART	SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE RIGHT ANGLE HEADER ASSEMBLY CHARTED SALES DRAWING	 MOLEX INCORPORATED	DOCUMENT NO. SD-31197-003	SHEET NO. 7 OF 8
				mm	INCH																							
			4 PLACES	± ---	± ---																							
			3 PLACES	± ---	± ---																							
			2 PLACES	± 0.13	± ---																							
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REV	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																								

RECOMMENDED PCB LAYOUT



ENTER DESCRIPTION EC NO: UAU2009-0141 TDRW:CDILLON 2008/09/15 CHKD:CDILLON 2008/09/15 APPR:SWARCEAU 2008/09/15	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY MDEVITO	DATE 01/12/06	TITLE RIGHT ANGLE HEADER ASSEMBLY CHARTED SALES DRAWING	
			4 PLACES	± ---	± ---	CHECKED BY BCOURIM	DATE 01/12/07		
			3 PLACES	± ---	± ---				
			2 PLACES	± 0.13	± ---	APPROVED BY GMEYER	DATE 01/12/07	MOLEX MOLEX INCORPORATED	
			1 PLACE	± 0.25	± ---				
			ANGULAR ±1/2°			MATERIAL NO.		DOCUMENT NO.	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART		SD-31197-003		8 OF 8		
REV			SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					