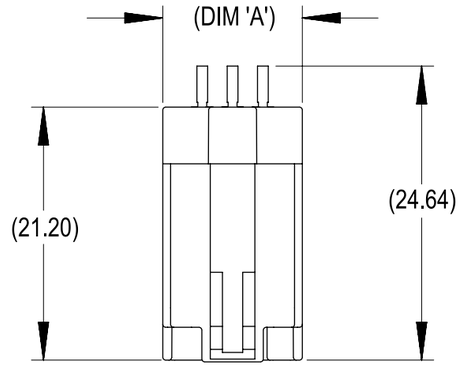
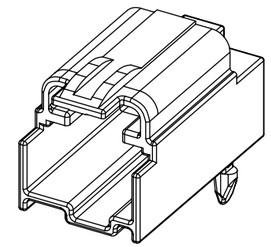
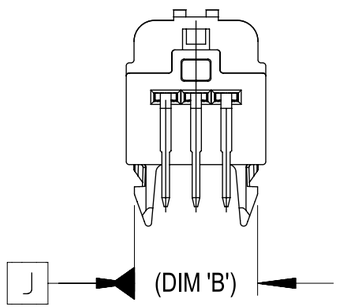
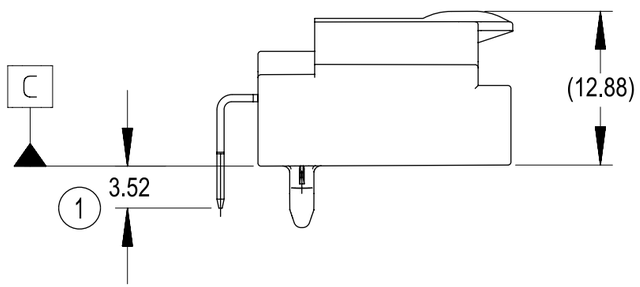
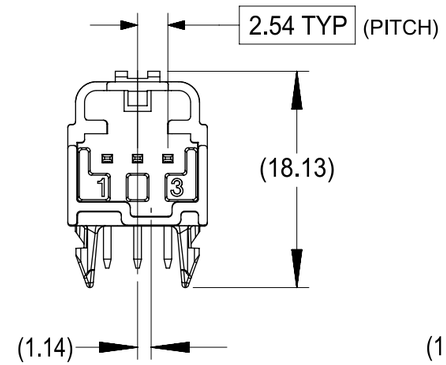
3 WAY RIGHT ANGLE
HEADER ASSEMBLY
(POLARIZATION OPTIONS
VIEWED FROM MATE SIDE)











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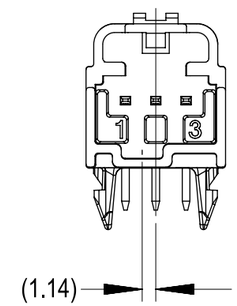

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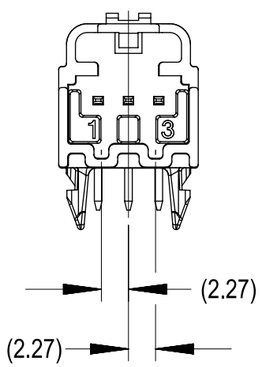

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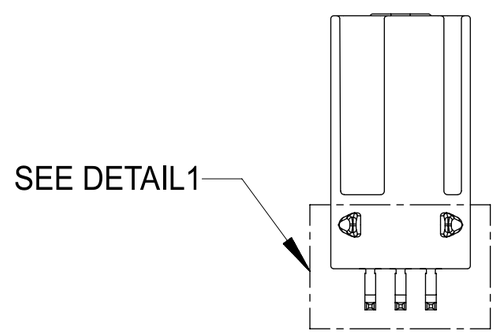


NOTES:

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.: SEE CHART.
5. MATES WITH SEE CHART.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS	DIMENSION UNITS: MM	SCALE: 1:1	CURRENT REV DESC: REDRAWN
FA = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FC = 0	ANGULAR TOL ± 0.5°		
FP = 0	4 PLACES ±		
DIVISIONAL SYMBOLS	3 PLACES ±		
	2 PLACES ± 0.130		STATUS: Production
	1 PLACE ± 0.25		DRWN: Sien Li 2024-08-02
	0 PLACES ±		CHK'D: Elvis Song 2024-08-02
			APPR: Elvis Song 2024-08-02
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: B-SIZE / SERIES: 31197

molex

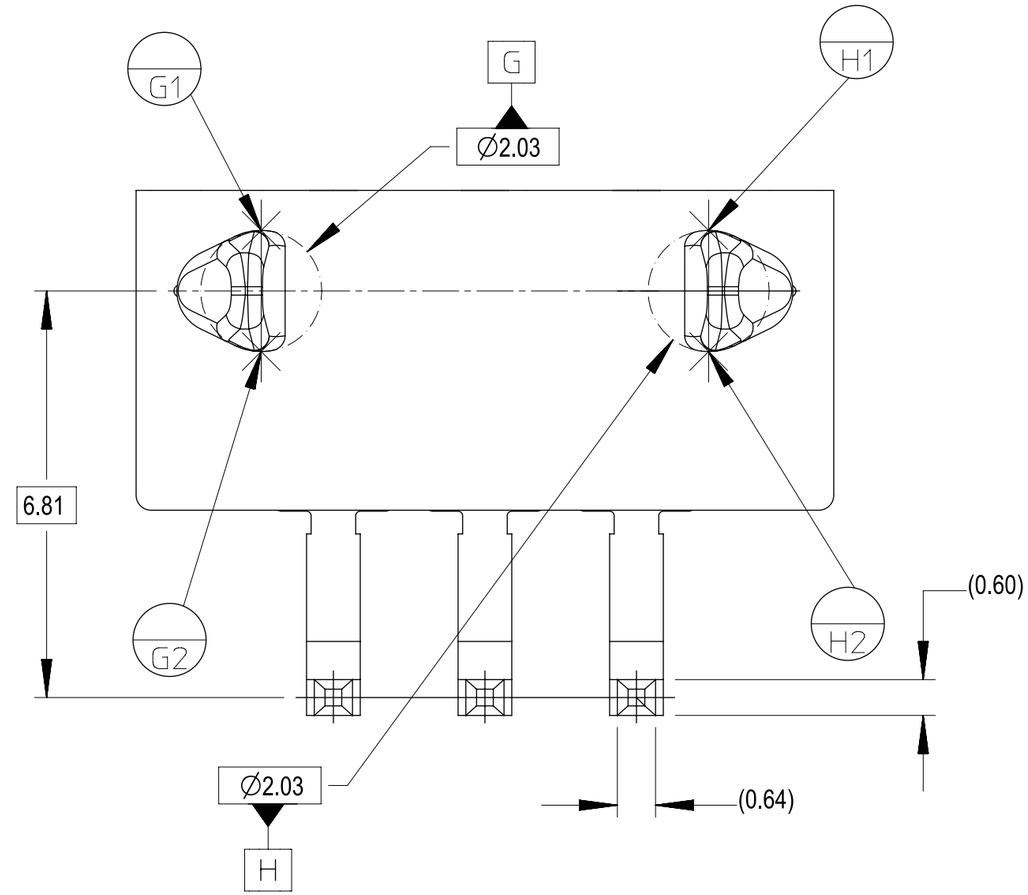
RIGHT ANGLE HEADER
ASSEMBLY CHARTED

PRODUCT CUSTOMER DRAWING

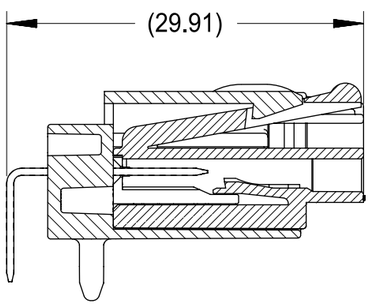
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31197-003	PSD	001	G

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE BOM TABLE	GENERAL MARKET	1 OF 8

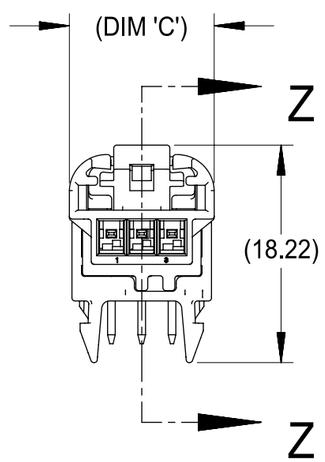
FORMAT: TC-B-PSD-B
REVISION: B
DATE: 2022/08/01



DETAIL1
SCALE 10:1



SECTION Z-Z
SCALE 2:1



FULLY SEATED ASSEMBLY

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC: REDRAWN
EA = 0	MM	1:1	
EC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
EP = 0	ANGULAR TOL	± 0.5°	
	4 PLACES	±	
DIVISIONAL SYMBOLS	3 PLACES	±	
	2 PLACES	± 0.130	
	1 PLACE	± 0.25	
	0 PLACES	±	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

STATUS: Production
DRWN: Sien Li 2024-08-02
CHK'D: Elvis Song 2024-08-02
APPR: Elvis Song 2024-08-02

THIRD ANGLE PROJECTION | DRAWING: B-SIZE | SERIES: 31197

molex

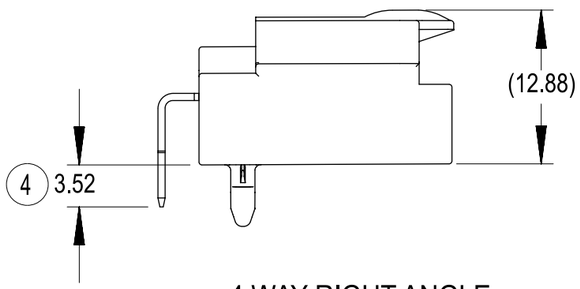
RIGHT ANGLE HEADER
ASSEMBLY CHARTED

PRODUCT CUSTOMER DRAWING

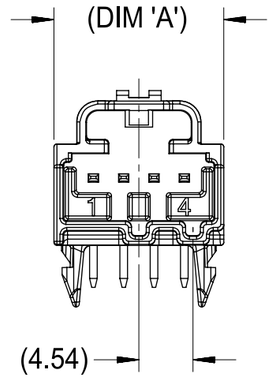
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31197-003	PSD	001	G

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE BOM TABLE	GENERAL MARKET	2 OF 8

FORMAT: TC-B-SIZE-18
REVISION: B
DATE: 2022/08/01



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



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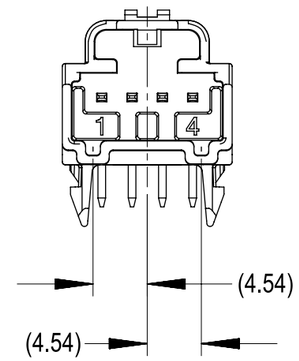

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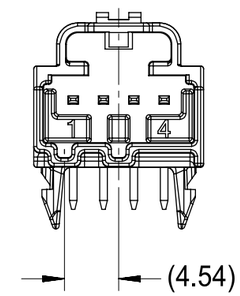

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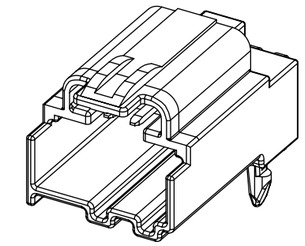
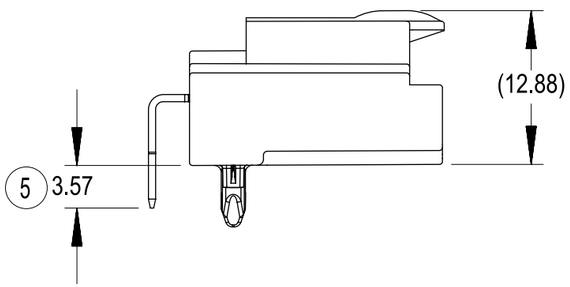
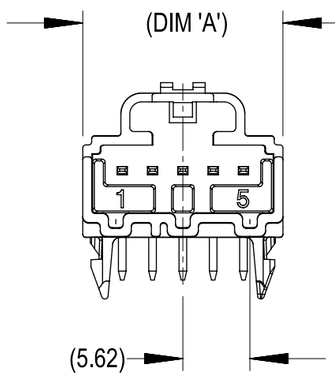




5 WAY RIGHT ANGLE
HEADER ASSEMBLY
(POLARIZATION OPTIONS
VIEWED FROM MATE SIDE)



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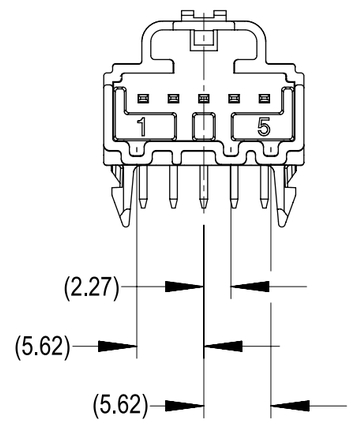

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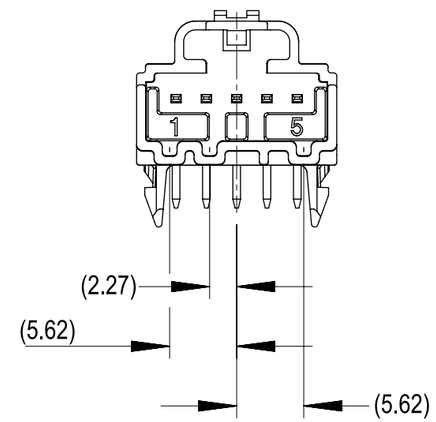

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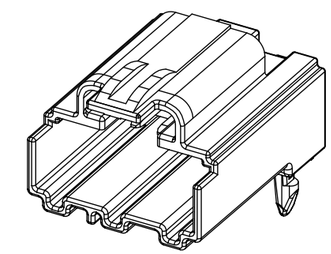
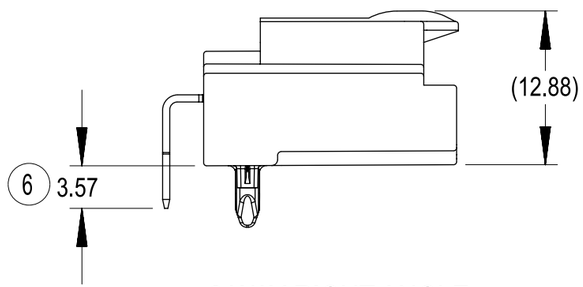
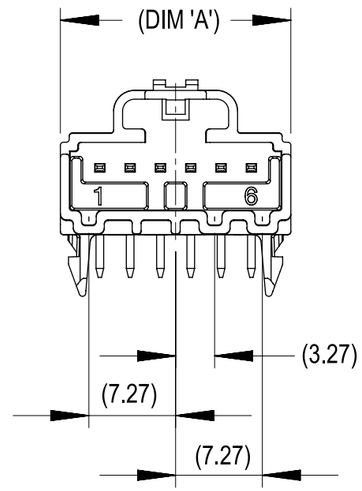


FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
FA = 0	DIMENSION UNITS: MM	SCALE: 1:1	CURRENT REV DESC: REDRAWN	molex
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			RIGHT ANGLE HEADER ASSEMBLY CHARTED
FP = 0	ANGULAR TOL	± 0.5°		
DIVISIONAL SYMBOLS	4 PLACES	±		PRODUCT CUSTOMER DRAWING
	3 PLACES	±		
	2 PLACES	± 0.130	STATUS: Production	
	1 PLACE	± 0.25	DRWN: Sien Li 2024-08-02	DOCUMENT NUMBER: SD-31197-003 / DOC TYPE: PSD / DOC PART: 001 / REVISION: G
	0 PLACES	±	CHK'D: Elvis Song 2024-08-02	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: Elvis Song 2024-08-02	
	THIRD ANGLE PROJECTION	DRAWING: B-SIZE	SERIES: 31197	MATERIAL NUMBER: SEE BOM TABLE / CUSTOMER: GENERAL MARKET / SHEET NUMBER: 3 OF 8

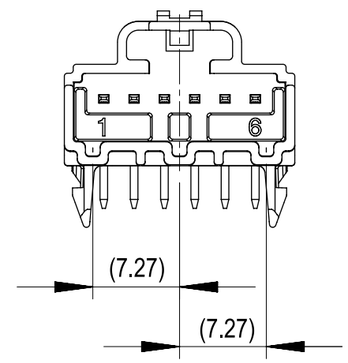
FORMAT: TC-B-SIZE-1
REVISION: B
DATE: 2022/08/01



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



OPTION "A"



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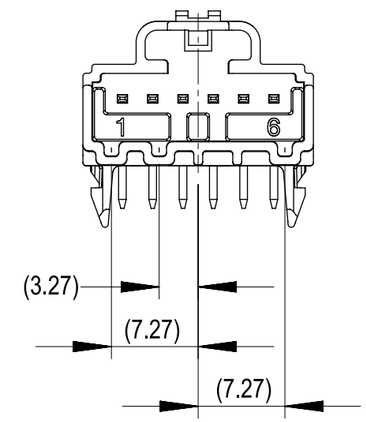

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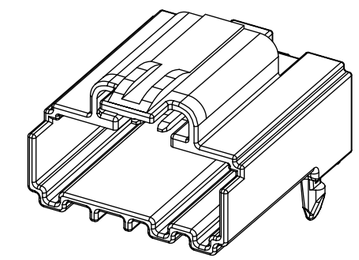


FUNCTIONAL SYMBOLS			
F/A = 0	DIMENSION UNITS: MM	SCALE: 1:1	
F/C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
F/P = 0	ANGULAR TOL	±	0.5°
	4 PLACES	±	
DIVISIONAL SYMBOLS	3 PLACES	±	
	2 PLACES	±	0.130
	1 PLACE	±	0.25
	0 PLACES	±	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

CURRENT REV DESC: REDRAWN

STATUS: Production

DRWN:	Sien Li	2024-08-02
CHK'D:	Elvis Song	2024-08-02
APPR:	Elvis Song	2024-08-02

THIRD ANGLE PROJECTION

DRAWING	SERIES
B-SIZE	31197

molex

RIGHT ANGLE HEADER
ASSEMBLY CHARTED

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31197-003	PSD	001	G

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE BOM TABLE	GENERAL MARKET	4 OF 8

FORMAT: TC-B-SP-001
REVISION: B
DATE: 2022/08/01

BILL OF MATERIALS

FEMALE MATING ASSEMBLY	HEADER ASSEMBLY P/N PER DWG. PK-31300-577 (TRAY PKG)	DESCRIPTION	COLOR	DIM 'A'	DIM 'B'	DIM 'C'
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
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	4 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "A"	BLACK	14.23	12.87	14.68
31068-1011	31100-0041	4 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "B"	GRAY	14.23	12.87	14.68
31068-1012	31100-0042	4 WAY RIGHT ANGLE HEADER ASSEMBLY POLARIZATION "C"	BROWN	14.23	12.87	14.68

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS
EA = 0
EC = 0
EP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: MM
SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REDRAWN

STATUS: Production
DRWN: Sien Li 2024-08-02
CHK'D: Elvis Song 2024-08-02
APPR: Elvis Song 2024-08-02

THIRD ANGLE PROJECTION

DRAWING: B-SIZE
SERIES: 31197

molex

RIGHT ANGLE HEADER ASSEMBLY CHARTED

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31197-003	PSD	001	G

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE BOM TABLE	GENERAL MARKET	5 OF 8

FORMAT: TC-B-PRINT
REVISION: B
DATE: 2022/08/01

BILL OF MATERIALS

FEMALE MATING ASSEMBLY	HEADER ASSEMBLY P/N PER DWG. PK-31300-577 (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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: MM
SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REDRAWN

STATUS: Production
DRWN: Sien Li 2024-08-02
CHK'D: Elvis Song 2024-08-02
APPR: Elvis Song 2024-08-02

THIRD ANGLE PROJECTION

DRAWING: B-SIZE
SERIES: 31197

molex

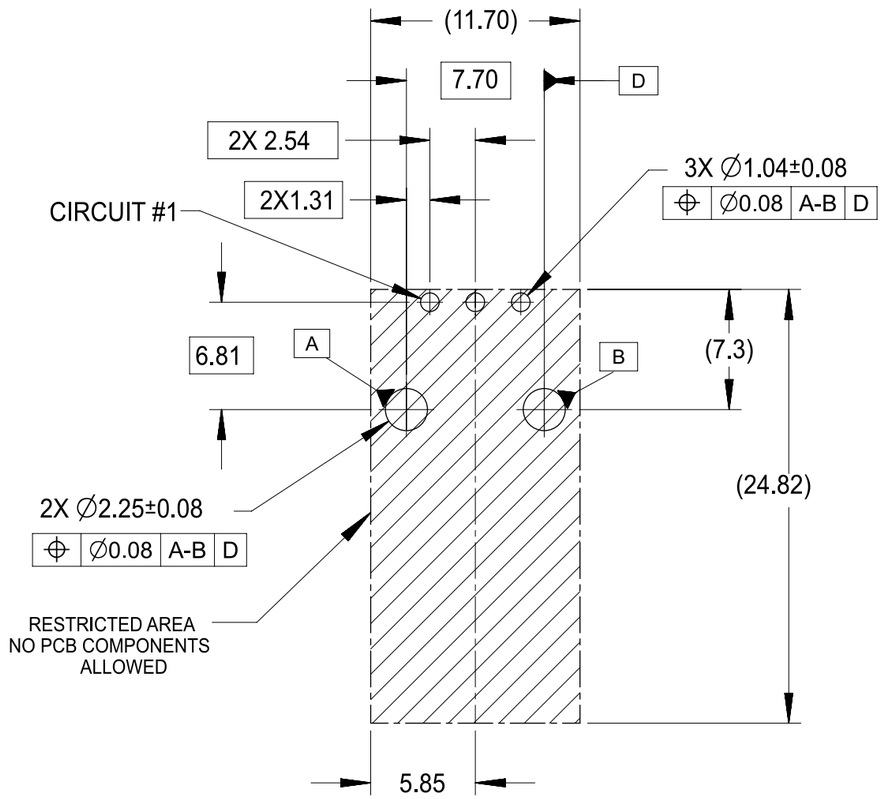
RIGHT ANGLE HEADER ASSEMBLY CHARTED

PRODUCT CUSTOMER DRAWING

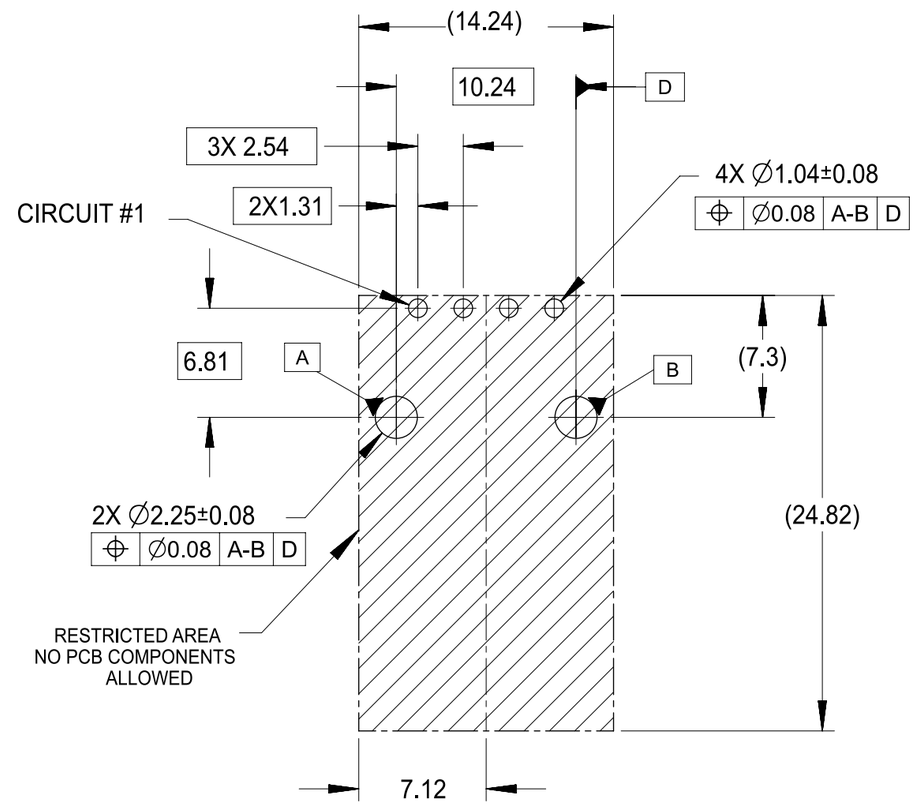
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31197-003	PSD	001	G

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE BOM TABLE	GENERAL MARKET	6 OF 8

RECOMMENDED PCB LAYOUT



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



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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS		
EA = 0	DIMENSION UNITS	MM
EC = 0	SCALE	1:1
EP = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	ANGULAR TOL	± 0.5°
	4 PLACES	±
DIVISIONAL SYMBOLS	3 PLACES	±
	2 PLACES	± 0.130
	1 PLACE	± 0.25
	0 PLACES	±
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC: REDRAWN

STATUS: Production
DRWN: Sien Li 2024-08-02
CHK'D: Elvis Song 2024-08-02
APPR: Elvis Song 2024-08-02

THIRD ANGLE PROJECTION

molex

RIGHT ANGLE HEADER
ASSEMBLY CHARTED

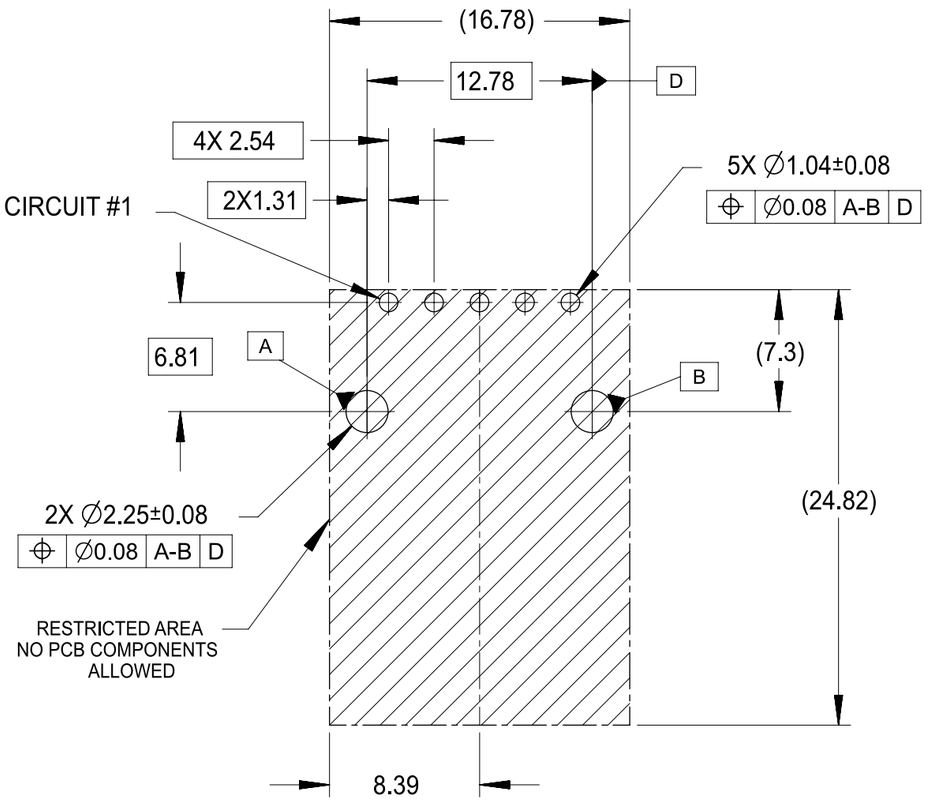
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31197-003	PSD	001	G

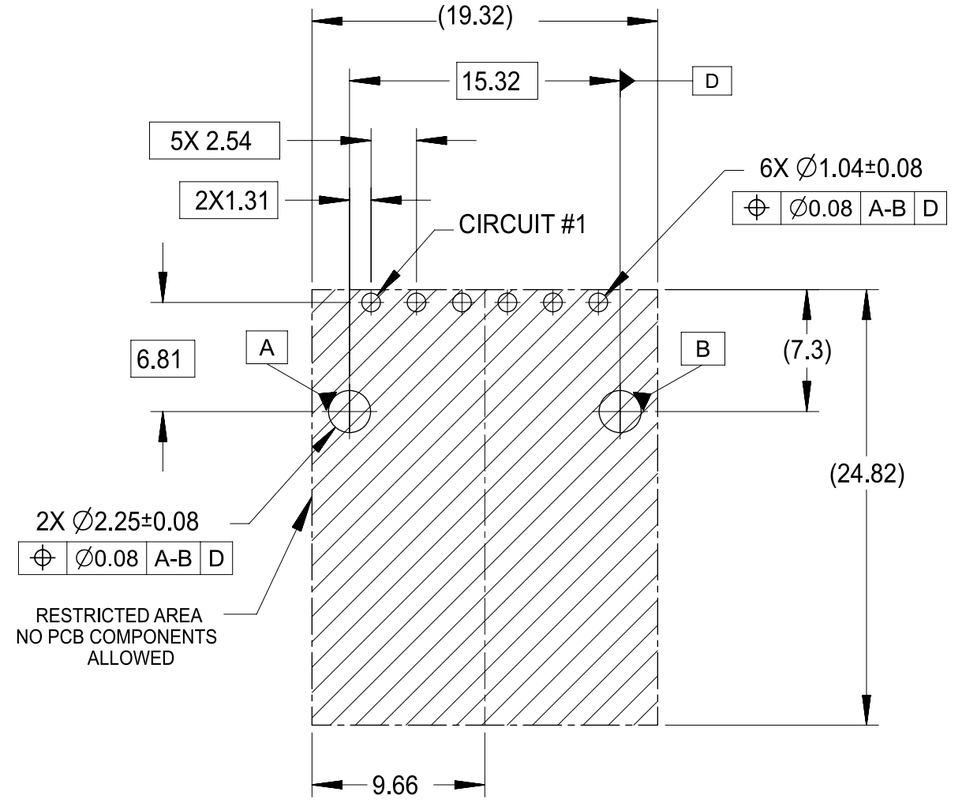
DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
B-SIZE	31197	SEE BOM TABLE	GENERAL MARKET	7 OF 8

FORMAT: TC-B-PRODUCT
REVISION: B
DATE: 2022/08/01

RECOMMENDED PCB LAYOUT



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



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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS	DIMENSION UNITS: MM	SCALE: 1:1	CURRENT REV DESC: REDRAWN
FA = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FC = 0	ANGULAR TOL ± 0.5°		
FP = 0	4 PLACES ±		
DIVISIONAL SYMBOLS	3 PLACES ±		
	2 PLACES ± 0.130		STATUS: Production
	1 PLACE ± 0.25		DRWN: Sien Li 2024-08-02
	0 PLACES ±		CHK'D: Elvis Song 2024-08-02
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: Elvis Song 2024-08-02

THIRD ANGLE PROJECTION | DRAWING: B-SIZE | SERIES: 31197

molex

RIGHT ANGLE HEADER
ASSEMBLY CHARTED

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31197-003	PSD	001	G

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE BOM TABLE	GENERAL MARKET	8 OF 8

FORMAT: TC-ib-prod-b
REVISION: B
DATE: 2022/08/01