

**COMMON DIMENSIONS
2040586103 SHOWN**

NOTES

1. MATERIALS

CAGE: STAINLESS STEEL, 0.25 THICK
 SPRING FINGERS: COPPER ALLOY, 0.08 THICK
 CONNECTOR HOUSING: HIGH PERFORMANCE THERMOPLASTIC, 94V-0
 TERMINALS: HIGH PERFORMANCE COPPER ALLOY, 0.18 THICK

2. FINISH

SPRING FINGERS: 0.5µm MIN NICKEL
 TERMINALS: CONTACT AREA: 0.76µm MIN GOLD OVER 2.5µm MIN NICKEL
 COMPLIANT AREA: 0.76-1.52µm MATTE TIN OVER 1.27µm MIN NICKEL

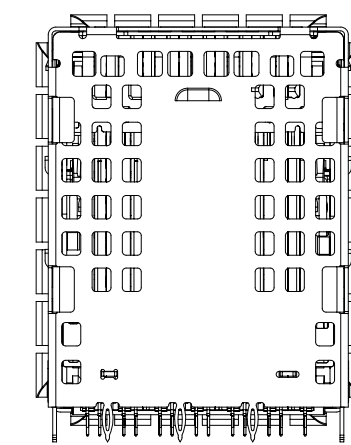
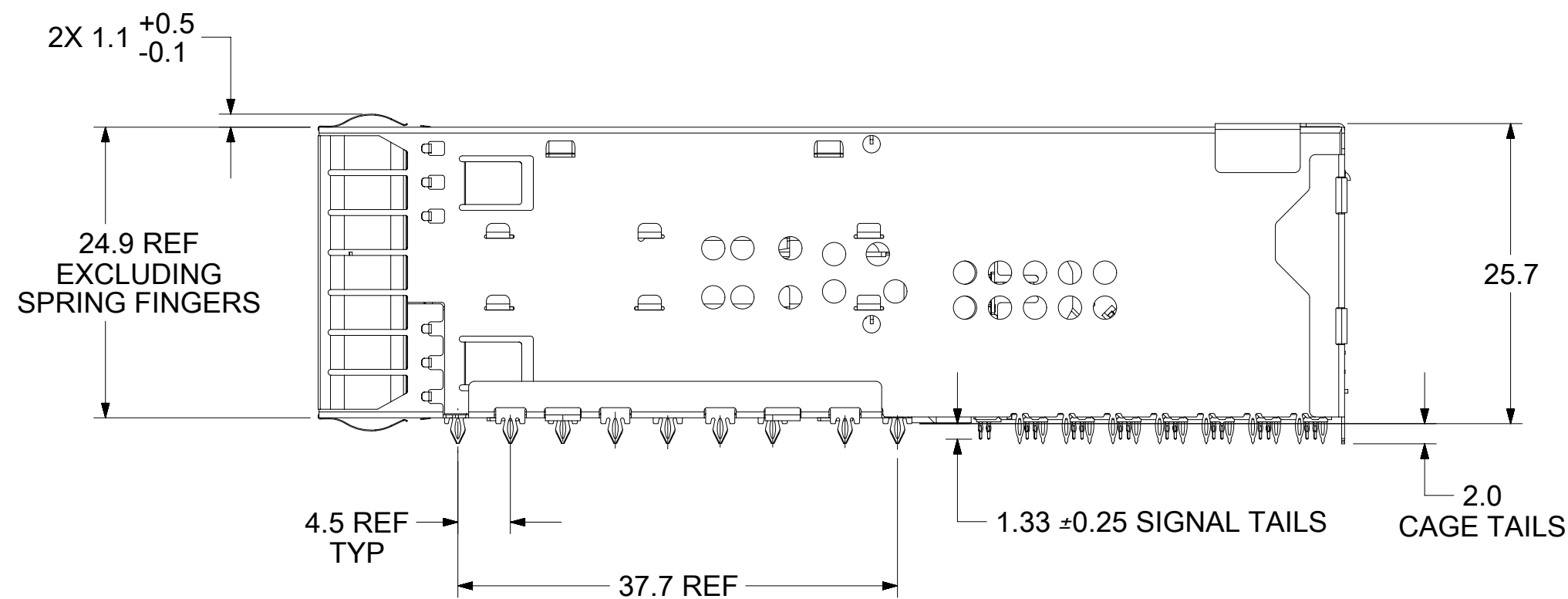
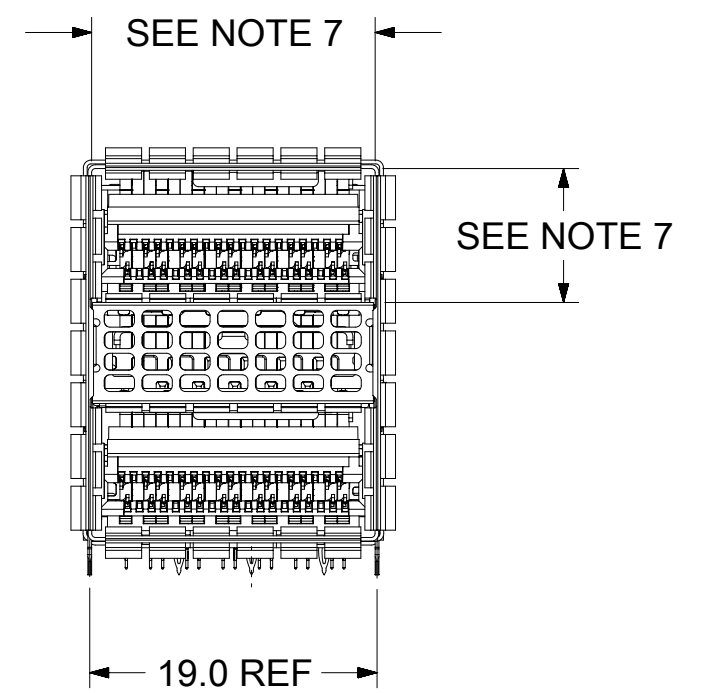
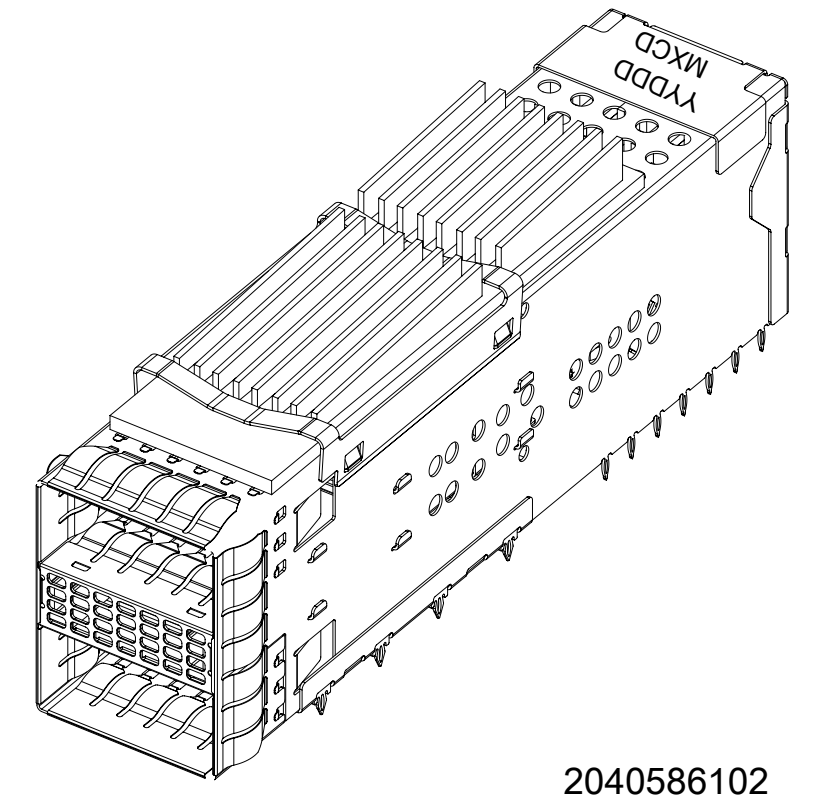
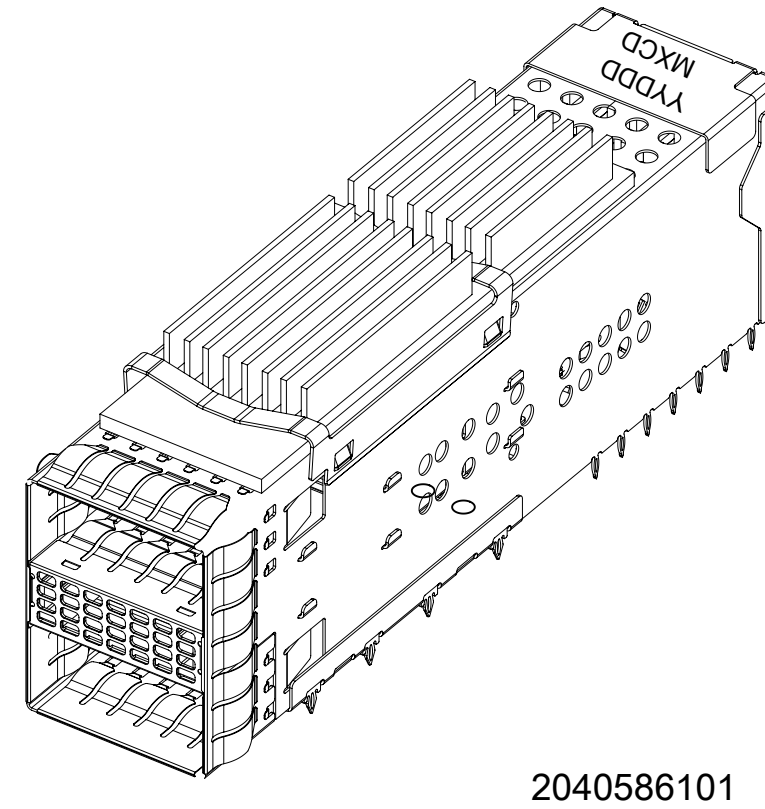
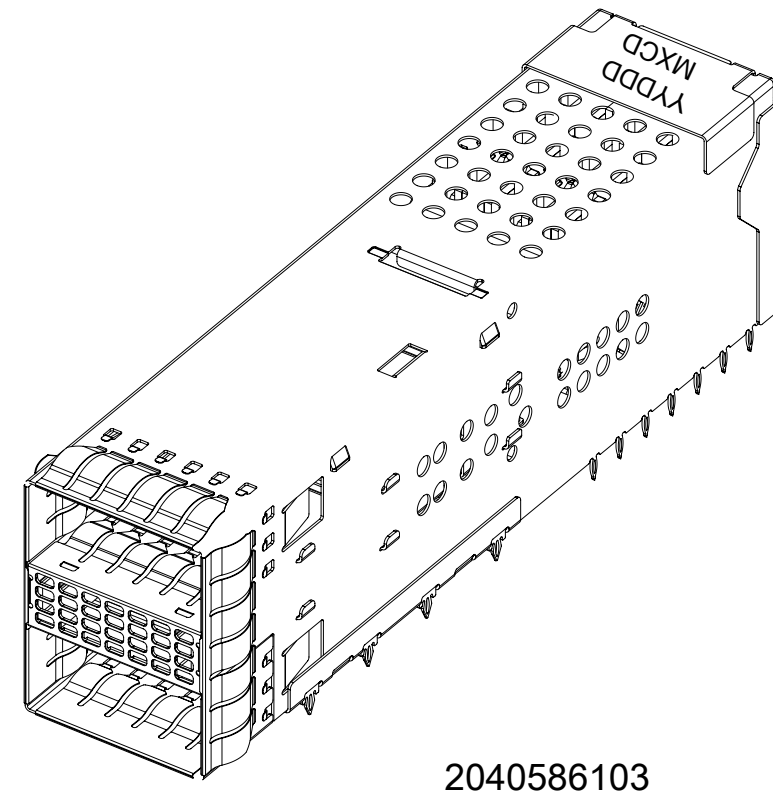
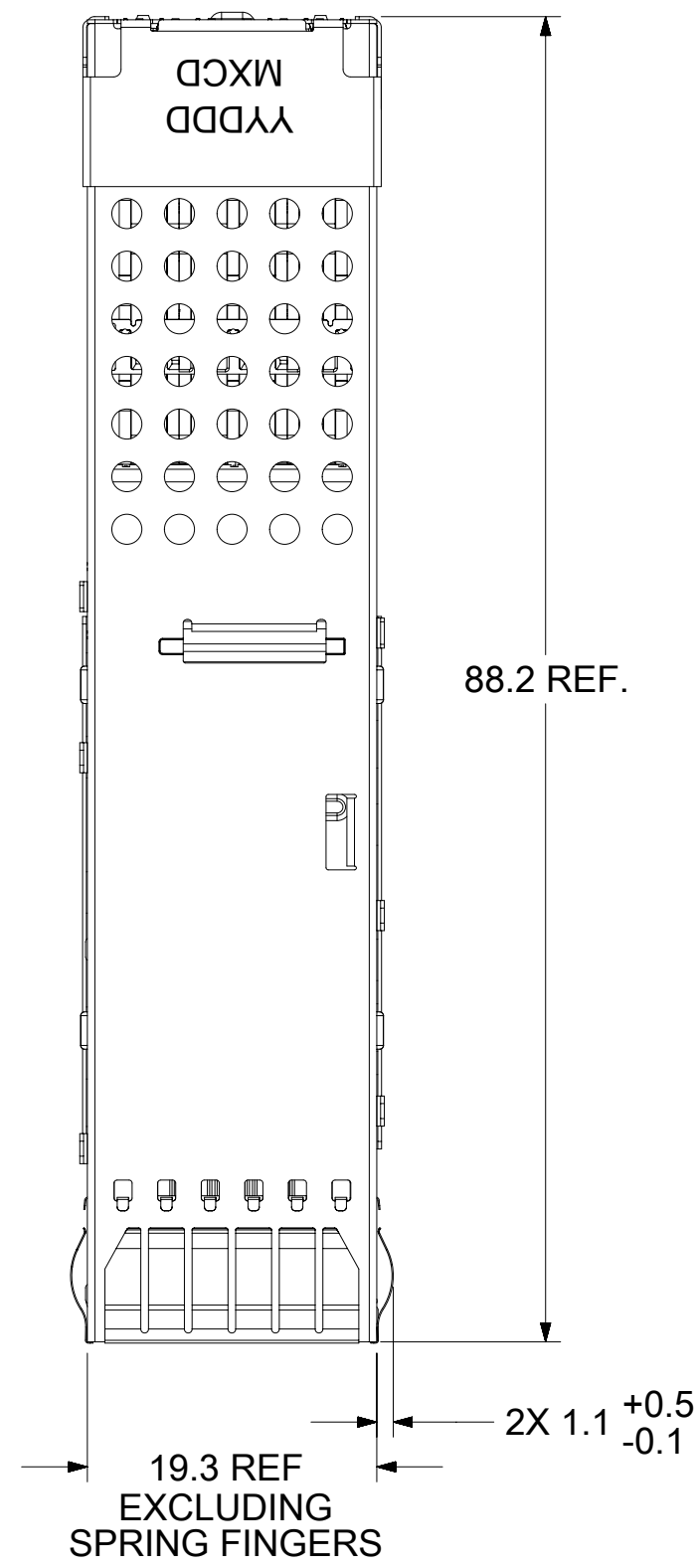
3. REFER TO 2040509001 FOR PACKAGING INFORMATION.

4. CONNECTOR INTENDED TO MATE WITH CABLE PLUG SERIES 74757,74758 AND 201591.

5. ALL VISIBLE CAGE EXTERIOR SURFACES TO BE CLASS B, EXCEPT FOR THE UNDERSIDE OF THE CAGE AND SHOULD CONFORM TO THE MOLEX COSMETIC STANDARD ES-171233-0001.

**6. DATE CODE LOCATION SHOWN. DATE CODE FORMAT:YYDDD
 YY = YEAR, DDD = DAY OF THE YEAR**

7. CAGE AND CONNECTOR ARE DESIGNED TO WORK WITH MODULES COMPLIANT TO THE QSFP DOUBLE DENSITY MSA HARDWARE SPECIFICATION.

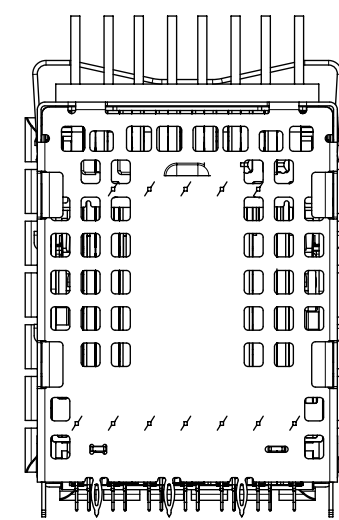
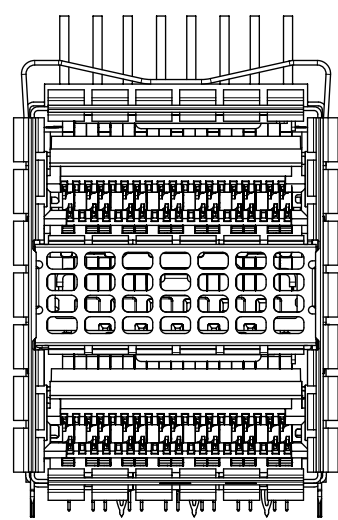
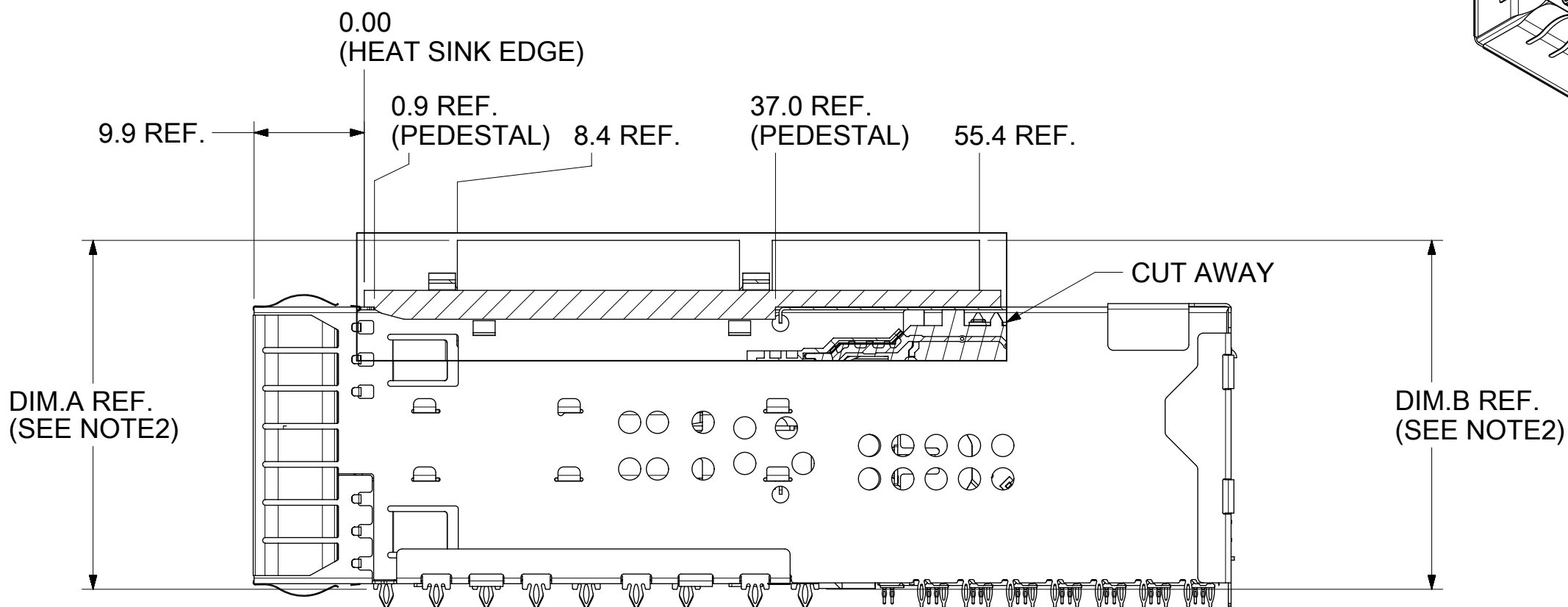
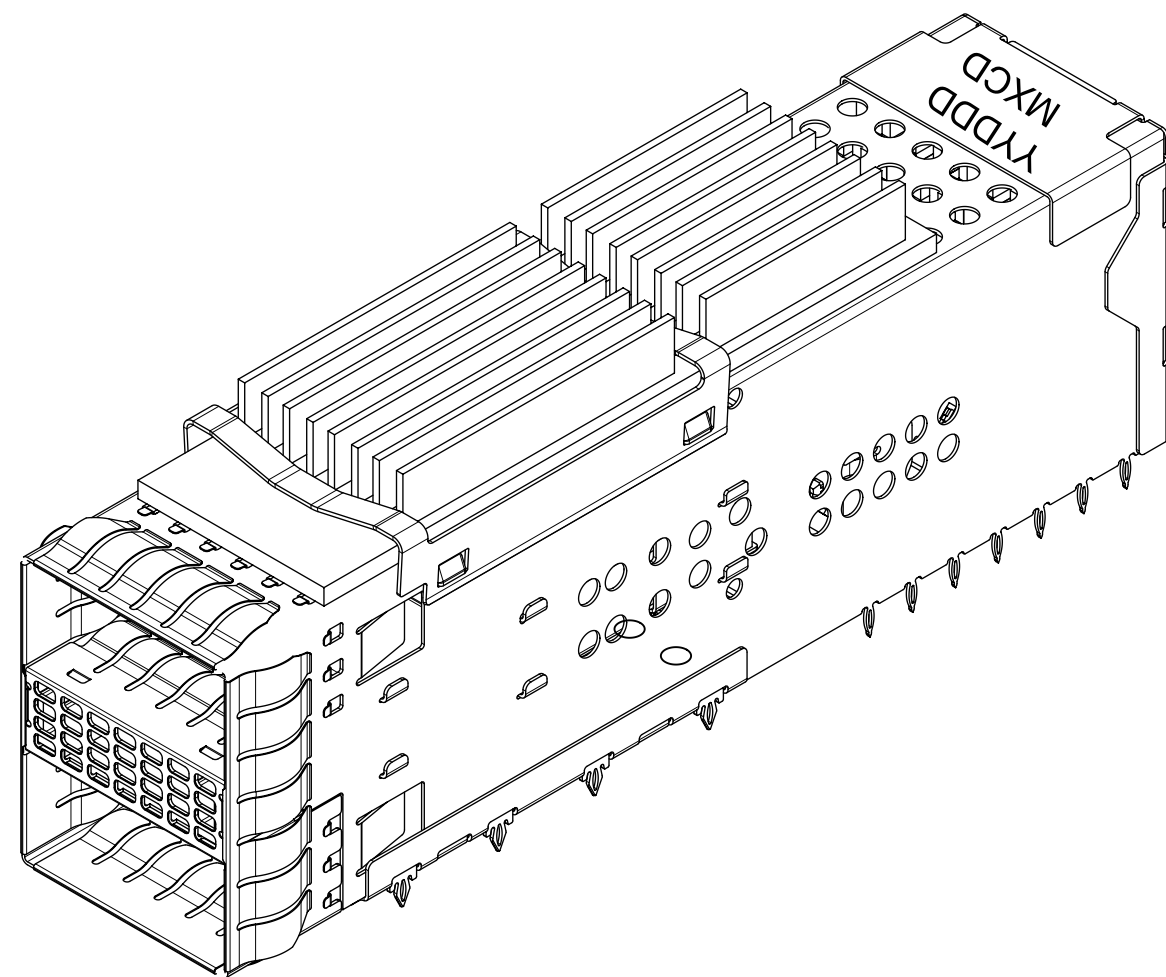
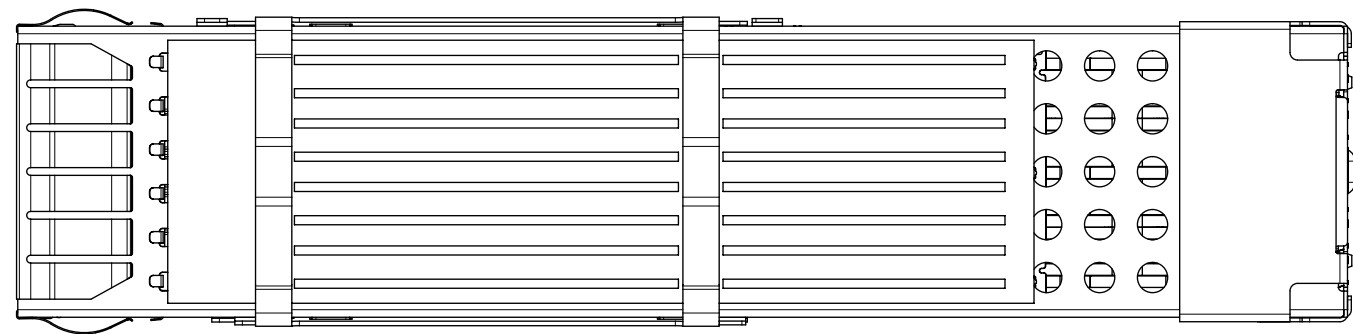


PART NUMBER	DESCRIPTION	SHEET
2040586101	FLAT TOP EXTERNAL HEAT SINK	2
2040586102	ANGLED TOP EXTERNAL HEAT SINK	2
2040586103	NO HEAT EXTERNAL HEAT SINK	1

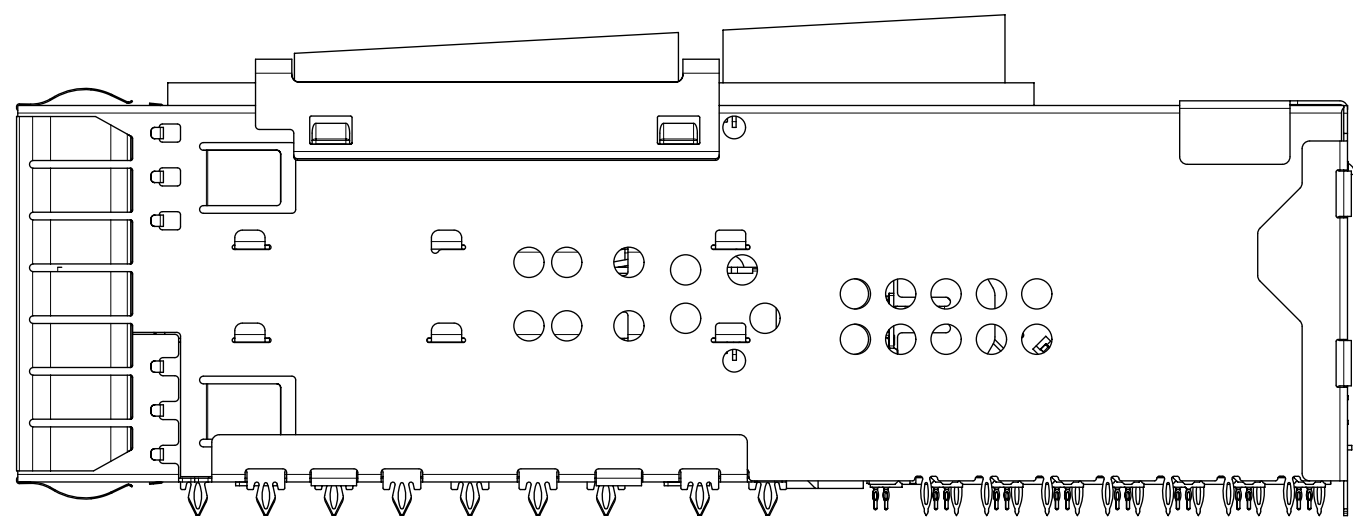
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE	
mm	1.5:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 603005	
ANGULAR TOL	± 2.0°	DRWN: HAVERY	2018/08/13
4 PLACES	±	CHK'D: RNELSON	2018/08/16
3 PLACES	±	APPR: RNELSON	2018/08/16
2 PLACES	± 0.13	INITIAL REVISION:	
1 PLACE	± 0.25	DRWN: MHANUMAPPARE	2017/08/30
0 PLACES	±	APPR: SMILLER	2018/02/07
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING SERIES
		C-SIZE	204058

molex			
QSFP-DD 2X1 CONNECTOR ASSEMBLY			
PRODUCT CUSTOMER DRAWING			
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2040586103	PSD	ASY	A3
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
	GENERAL MARKET	1 OF 9	

2040586101 SHOWN



2040586102 SHOWN



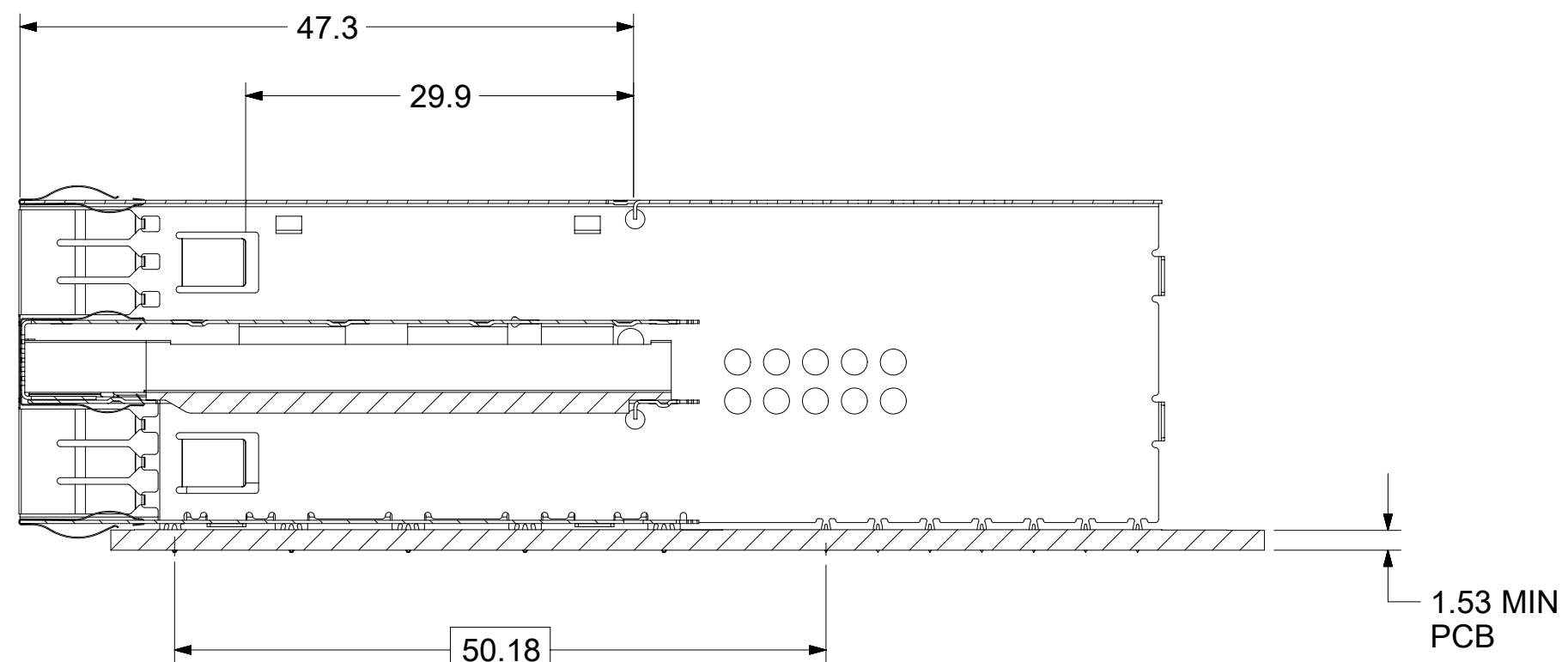
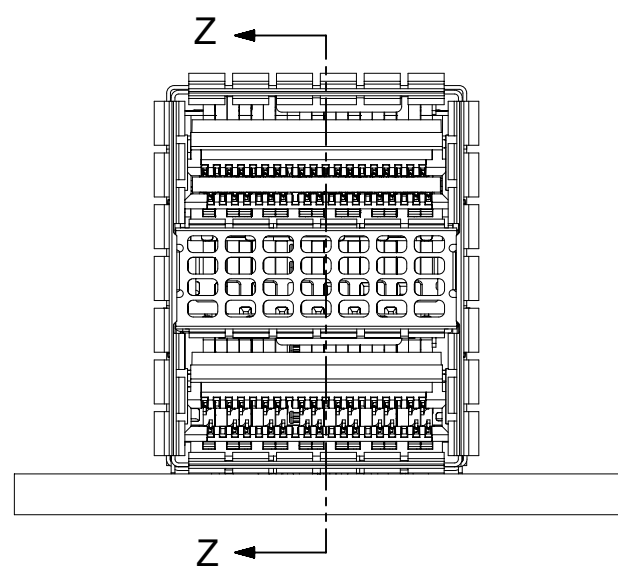
- NOTE:
- REFER TO SHEET 1 FOR OTHER DIMENSIONS.
 - HEIGHT OF HEAT SINK WITH MODULE INSERTED DIMENSION MAY BE LESS DUE TO MODULE AND HEAT SINK VARIATIONS
 - DIMENSIONS OF 2040586102 IS THE SAME AS 2040586101, EXCEPT DIM.A AND DIM.B.
 - REFER TO SHEET1 FOR COMMON DIMENSIONS.

PN	DIM.A	DIM.B
2040586101	32.5 REF	32.5 REF
2040586102	30 REF	32.5 REF

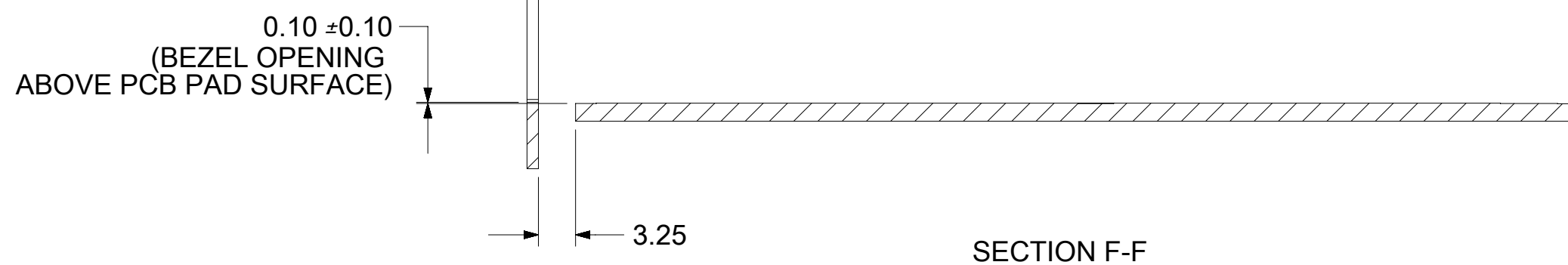
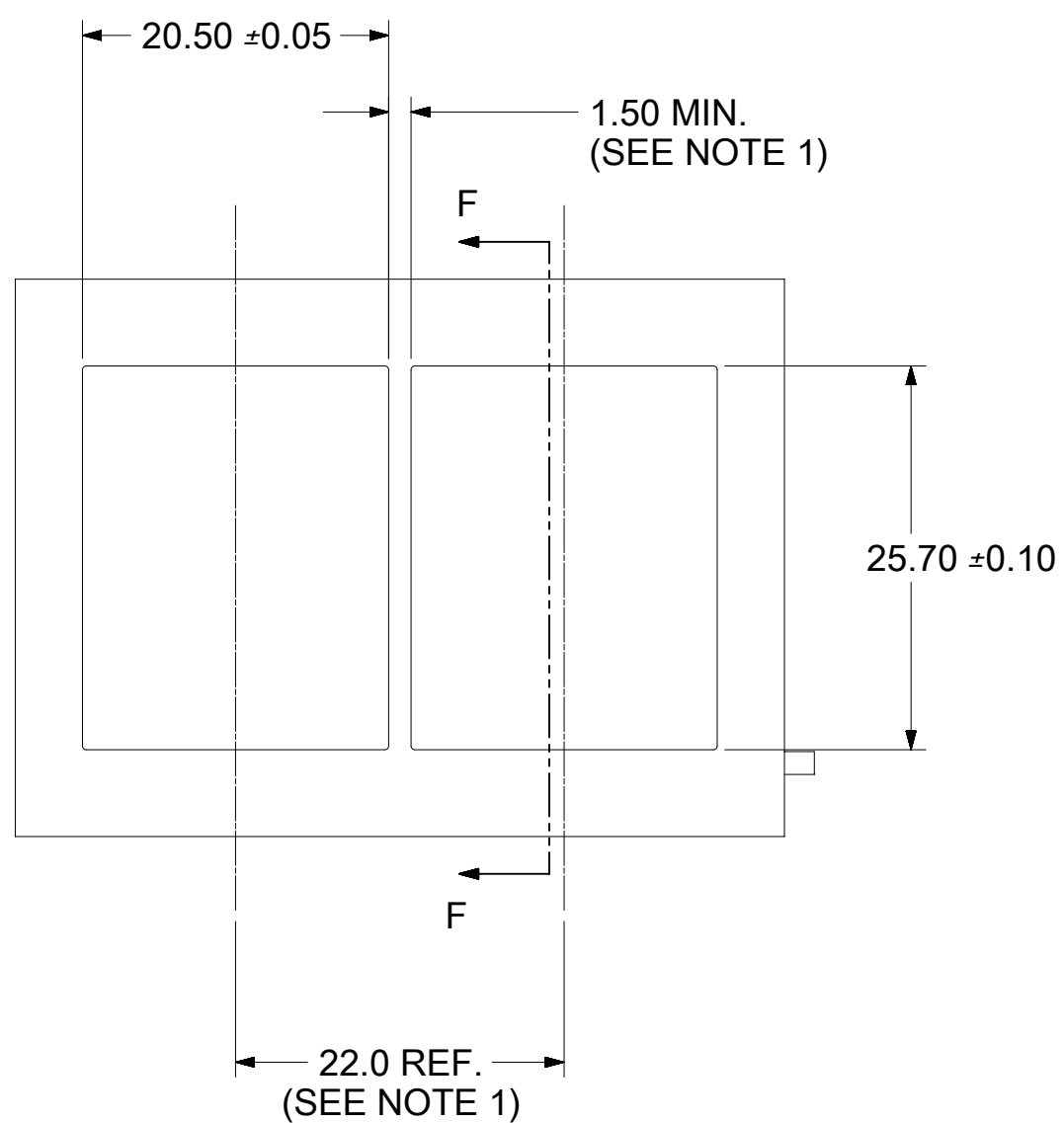
SYMBOLS DIMENSION UNITS: mm SCALE: 2:1 GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL ± 2.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.13 1 PLACE ± 0.25 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING SERIES: C-SIZE 204058		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION CURRENT REV DESC: SEE REVISION TABLE EC NO: 603005 DRWN: HAVERY 2018/08/13 CHK'D: RNELSON 2018/08/16 APPR: RNELSON 2018/08/16 INITIAL REVISION: DRWN: MHANUMAPPARE 2017/08/30 APPR: SMILLER 2018/02/07	<table border="1"> <tr> <td colspan="2">molex</td> </tr> <tr> <td colspan="2">QSFP-DD 2X1 CONNECTOR ASSEMBLY</td> </tr> <tr> <td colspan="2">PRODUCT CUSTOMER DRAWING</td> </tr> <tr> <td>DOCUMENT NUMBER</td> <td>DOC TYPE DOC PART REVISION</td> </tr> <tr> <td>2040586103</td> <td>PSD ASY A3</td> </tr> <tr> <td>MATERIAL NUMBER</td> <td>CUSTOMER</td> </tr> <tr> <td>GENERAL MARKET</td> <td>SHEET NUMBER</td> </tr> <tr> <td></td> <td>2 OF 9</td> </tr> </table>	molex		QSFP-DD 2X1 CONNECTOR ASSEMBLY		PRODUCT CUSTOMER DRAWING		DOCUMENT NUMBER	DOC TYPE DOC PART REVISION	2040586103	PSD ASY A3	MATERIAL NUMBER	CUSTOMER	GENERAL MARKET	SHEET NUMBER		2 OF 9
molex																			
QSFP-DD 2X1 CONNECTOR ASSEMBLY																			
PRODUCT CUSTOMER DRAWING																			
DOCUMENT NUMBER	DOC TYPE DOC PART REVISION																		
2040586103	PSD ASY A3																		
MATERIAL NUMBER	CUSTOMER																		
GENERAL MARKET	SHEET NUMBER																		
	2 OF 9																		

DOCUMENT STATUS	P1	RELEASE DATE	2018/08/16 22:32:34
-----------------	----	--------------	---------------------

2040586103 SHOWN



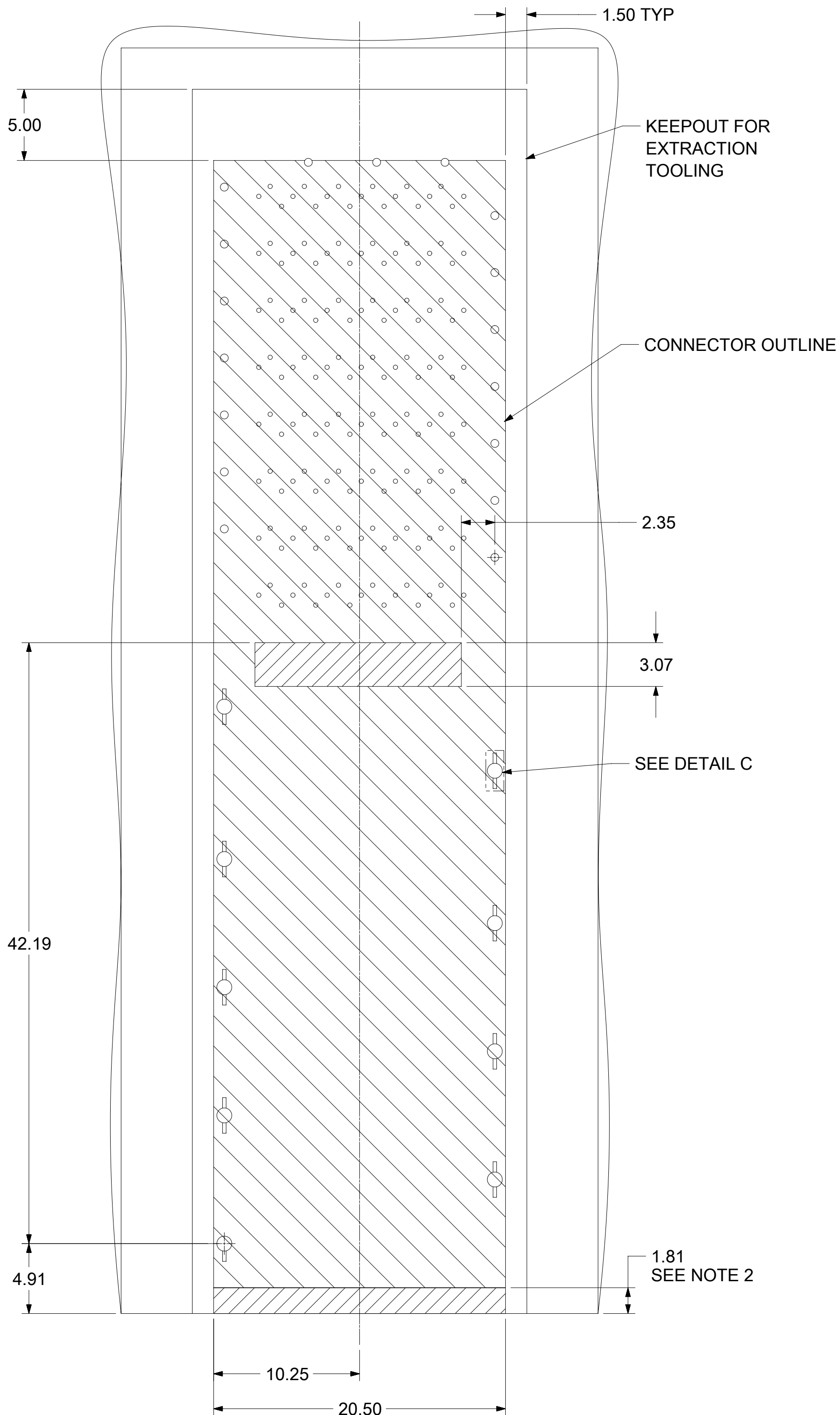
SECTION Z-Z
(CONNECTOR IS NOT SHOWN)



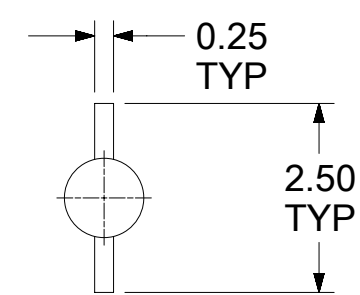
SECTION F-F

NOTE:
1. DIMENSIONS VARY BY PCB LAYOUT AND EXTRACTION TOOLING DESIGN.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE					
▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		mm		2:1							
		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 603005 DRWN: HAVERY 2018/08/13 CHK'D: RNELSON 2018/08/16 APPR: RNELSON 2018/08/16				QSFP-DD 2X1 CONNECTOR ASSEMBLY	
		ANGULAR TOL ± 2.0°				INITIAL REVISION: DRWN: MHANUMAPPARE 2017/08/30 APPR: SMILLER 2018/02/07				PRODUCT CUSTOMER DRAWING	
		4 PLACES ±								DOCUMENT NUMBER	
		3 PLACES ±								2040586103	
		2 PLACES ± 0.13								DOC TYPE DOC PART REVISION	
		1 PLACE ± 0.25								PSD ASY A3	
		0 PLACES ±								MATERIAL NUMBER CUSTOMER SHEET NUMBER	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING SERIES		GENERAL MARKET		3 OF 9	



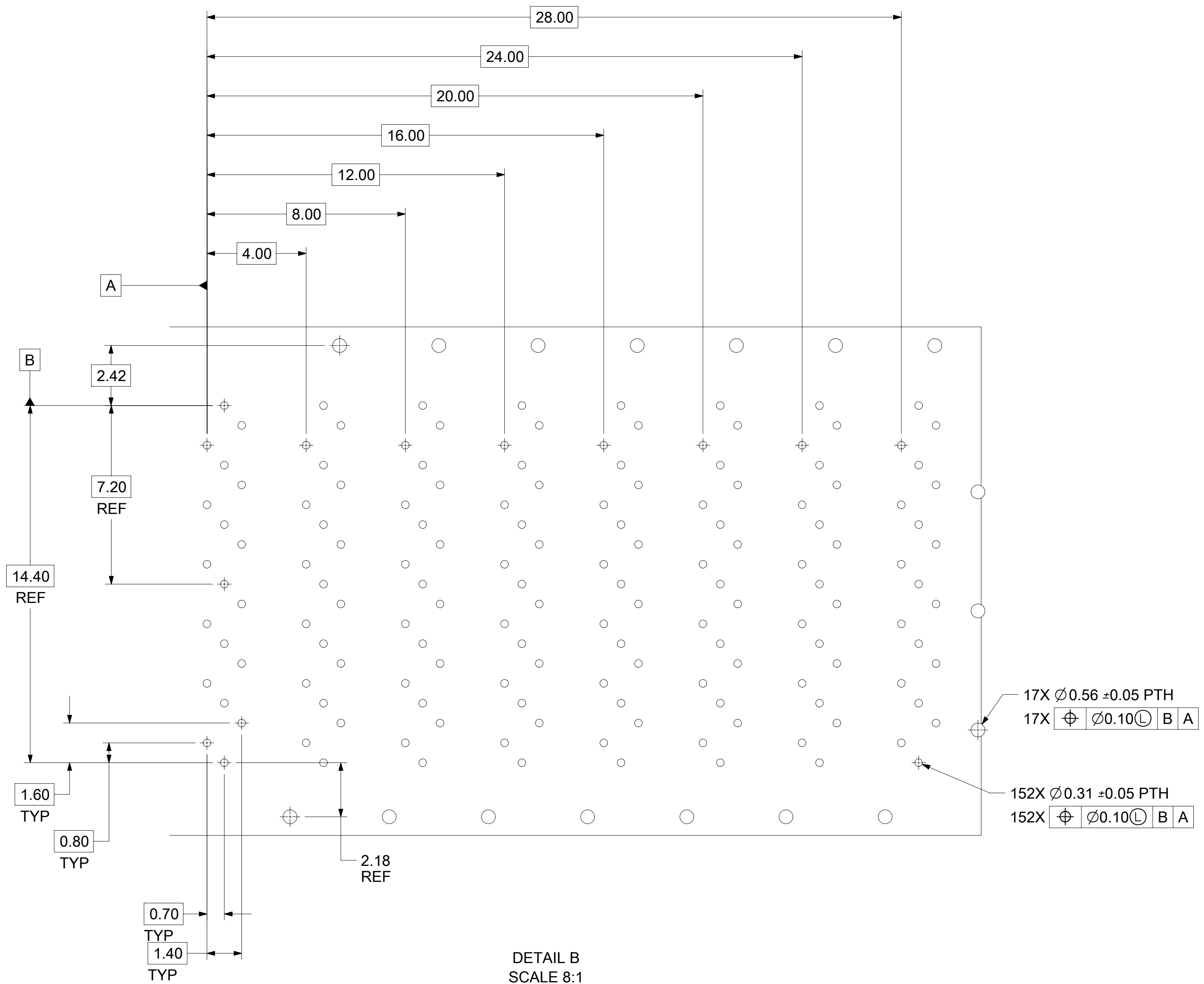
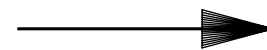
- NOTES:
1. THE ENTIRE AREA UNDER THE CONNECTOR (OUTSIDE DASHED LINES) IS TO BE CONSIDERED A KEEP-OUT AREA FOR COMPONENTS.
 2. HATCHED AREAS REPRESENT ZONES ON THE PCB THAT COME IN CONTACT WITH OR BE IN CLOSE PROXIMITY TO THE PLASTIC HOUSING OR THE CONNECTOR CAGE. INDICATED AREAS TO BE CONSIDERED TRACE FREE.



DETAIL C
SCALE 10:1

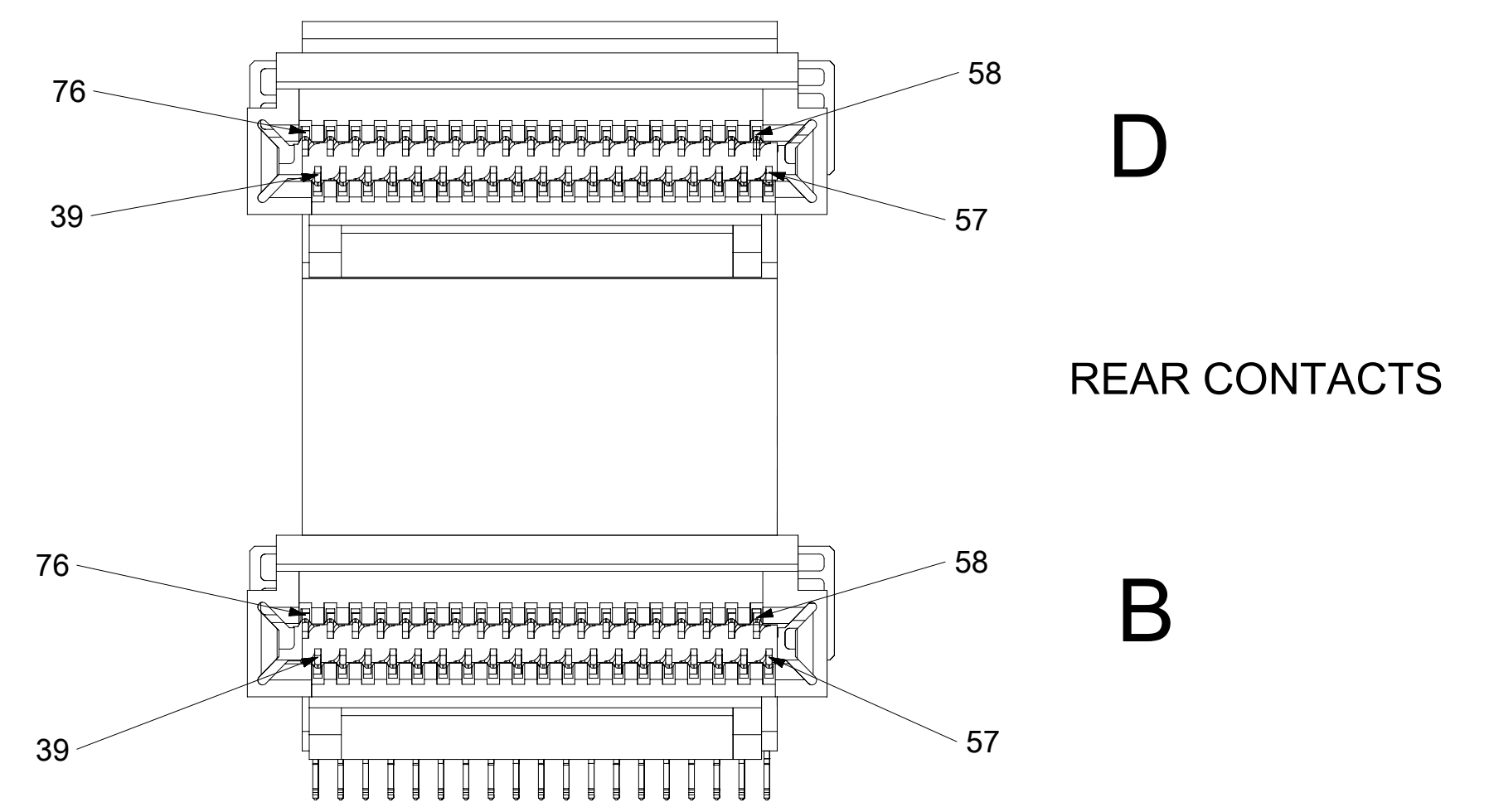
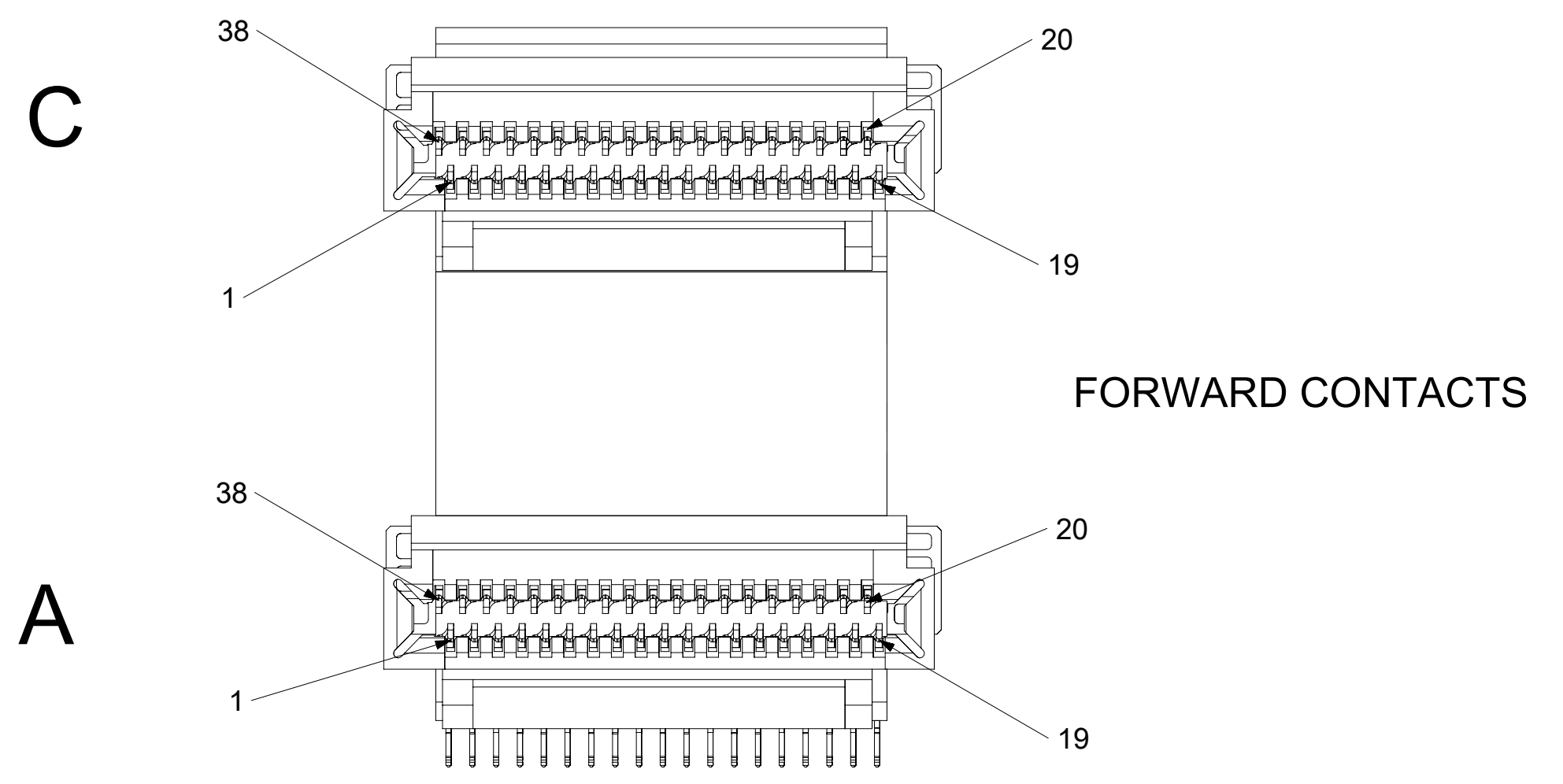
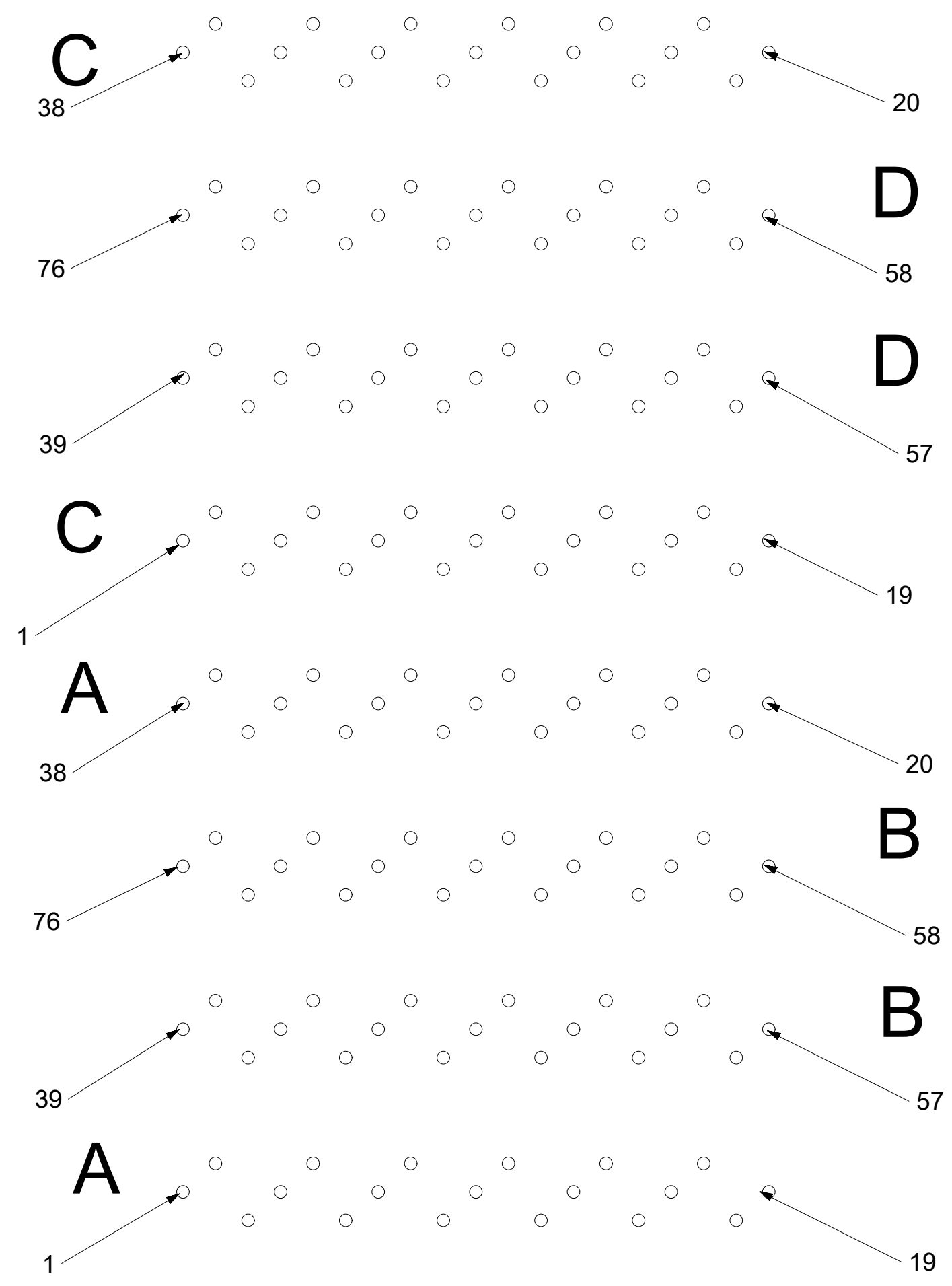
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE	
$\nabla = 0$	mm	4:1	molex QSFP-DD 2X1 CONNECTOR ASSEMBLY PRODUCT CUSTOMER DRAWING	
$\nabla / = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)			
$\nabla \setminus = 0$	ANGULAR TOL $\pm 2.0^\circ$			
$\nabla \setminus / = 0$	4 PLACES \pm			
$\nabla \setminus \setminus = 0$	3 PLACES \pm		EC NO: 603005 DRWN: HAVERY 2018/08/13 CHK'D: RNELSON 2018/08/16 APPR: RNELSON 2018/08/16	
$\nabla \setminus \setminus \setminus = 0$	2 PLACES ± 0.13		INITIAL REVISION:	
$\nabla \setminus \setminus \setminus / = 0$	1 PLACE ± 0.25		DRWN: MHANUMAPPARE 2017/08/30 APPR: SMILLER 2018/02/07	
$\nabla \setminus \setminus \setminus \setminus = 0$	0 PLACES \pm		DOCUMENT NUMBER: 2040586103 DOC TYPE: PSD DOC PART: ASY REVISION: A3	
$\square = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SHEET NUMBER
$\nabla \setminus \setminus \setminus \setminus \setminus = 0$			C-SIZE	4 OF 9

MODULE INSERTION DIRECTION

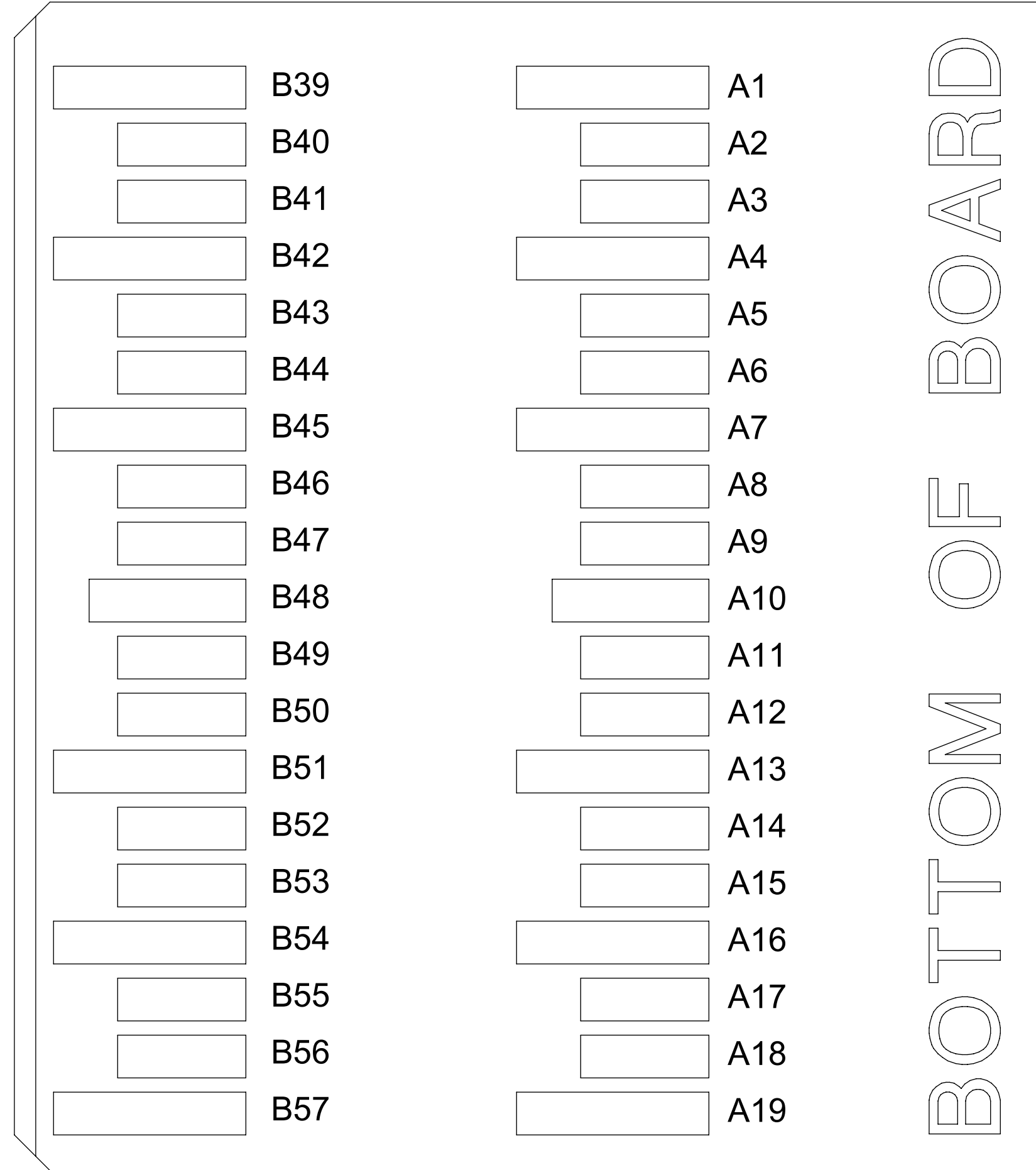
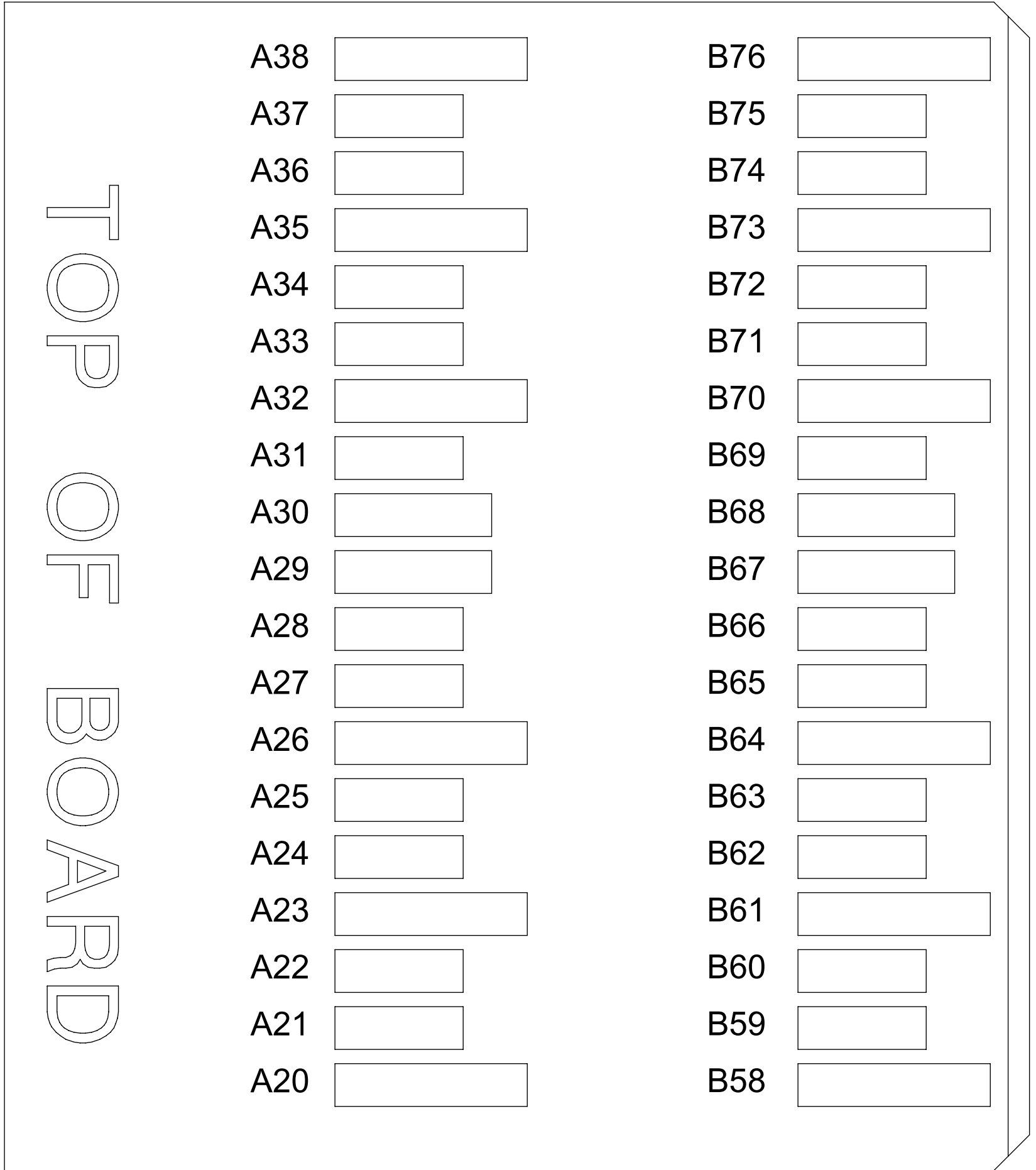


DETAIL B
SCALE 8:1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				
▽ = 0	▽ = 0	mm	8:1			molex QSFP-DD 2X1 CONNECTOR ASSEMBLY PRODUCT CUSTOMER DRAWING EC NO: 603005 DRWN: HAVERY 2018/08/13 CHK'D: RNELSON 2018/08/16 APPR: RNELSON 2018/08/16 INITIAL REVISION: DRWN: MHANUMAPPARE 2017/08/30 APPR: SMILLER 2018/02/07 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING SERIES C-SIZE 204058				
▽ = 0	▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)								
▽ = 0	▽ = 0	ANGULAR TOL ± 2.0°								
▽ = 0	▽ = 0	4 PLACES ±								
▽ = 0	▽ = 0	3 PLACES ±								
▽ = 0	▽ = 0	2 PLACES ± 0.13				DOCUMENT NUMBER				
▽ = 0	▽ = 0	1 PLACE ± 0.25				2040586103				
▽ = 0	▽ = 0	0 PLACES ±				DOC TYPE		DOC PART		REVISION
▽ = 0	▽ = 0					PSD		ASY		A3
▽ = 0	▽ = 0					MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
▽ = 0	▽ = 0					GENERAL MARKET				6 OF 9












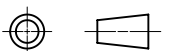
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE					
▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)						EC NO: 603005				2017/08/30 2018/02/07	
ANGULAR TOL ± 2.0°						DRWN: HAVERY					
4 PLACES ±						2018/08/13				PRODUCT CUSTOMER DRAWING	
3 PLACES ±						CHK'D: RNELSON					
2 PLACES ± 0.13						2018/08/16				DOCUMENT NUMBER 2040586103	
1 PLACE ± 0.25						APPR: RNELSON					
0 PLACES ±						INITIAL REVISION:				DOC TYPE PSD	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						DRWN: MHANUMAPPARE					
						THIRD ANGLE PROJECTION		DRAWING		SERIES	
								C-SIZE		204058	
								MATERIAL NUMBER		CUSTOMER	
								GENERAL MARKET		SHEET NUMBER	
										7 OF 9	



SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE	
	mm	1:1		
	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 603005	
	ANGULAR TOL ± 2.0°		DRWN: HAVERY	2018/08/13
	4 PLACES ±		CHK'D: RNELSON	2018/08/16
	3 PLACES ±		APPR: RNELSON	2018/08/16
	2 PLACES ± 0.13		INITIAL REVISION:	
	1 PLACE ± 0.25		DRWN: MHANUMAPPARE	2017/08/30
	0 PLACES ±		APPR: SMILLER	2018/02/07
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
			C-SIZE	204058

molex			
QSFP-DD 2X1 CONNECTOR ASSEMBLY			
PRODUCT CUSTOMER DRAWING			
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2040586103	PSD	ASY	A3
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
	GENERAL MARKET	8 OF 9	

REV	DATE	DESCRIPTION
A	2017/12/06	INITIAL RELEASE. DATE CODE ON BACK COVER
A1	2018/02/08	RELEASED AS GENERAL MARKET DRAWING
A2	2018/03/05	UPDATED DATE CODE CALLOUT IN THE NOTES
A3	2018/8/13	ADDED CUSTOMER REQUESTED DIMS

SYMBOLS  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE				
	mm	1:1					
	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 603005				
	ANGULAR TOL	± 2.0°	DRWN: HAVERY	2018/08/13			
	4 PLACES	±	CHK'D: RNELSON	2018/08/16			
	3 PLACES	±	APPR: RNELSON	2018/08/16			
	2 PLACES	± 0.13	INITIAL REVISION:				
	1 PLACE	± 0.25	DRWN: MHANUMAPPARE	2017/08/30			
	0 PLACES	±	APPR: SMILLER	2018/02/07			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
		C-SIZE	204058	2040586103	PSD	ASY	A3
				MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
					GENERAL MARKET	9 OF 9	



QSFP-DD 2X1
CONNECTOR ASSEMBLY

PRODUCT CUSTOMER DRAWING