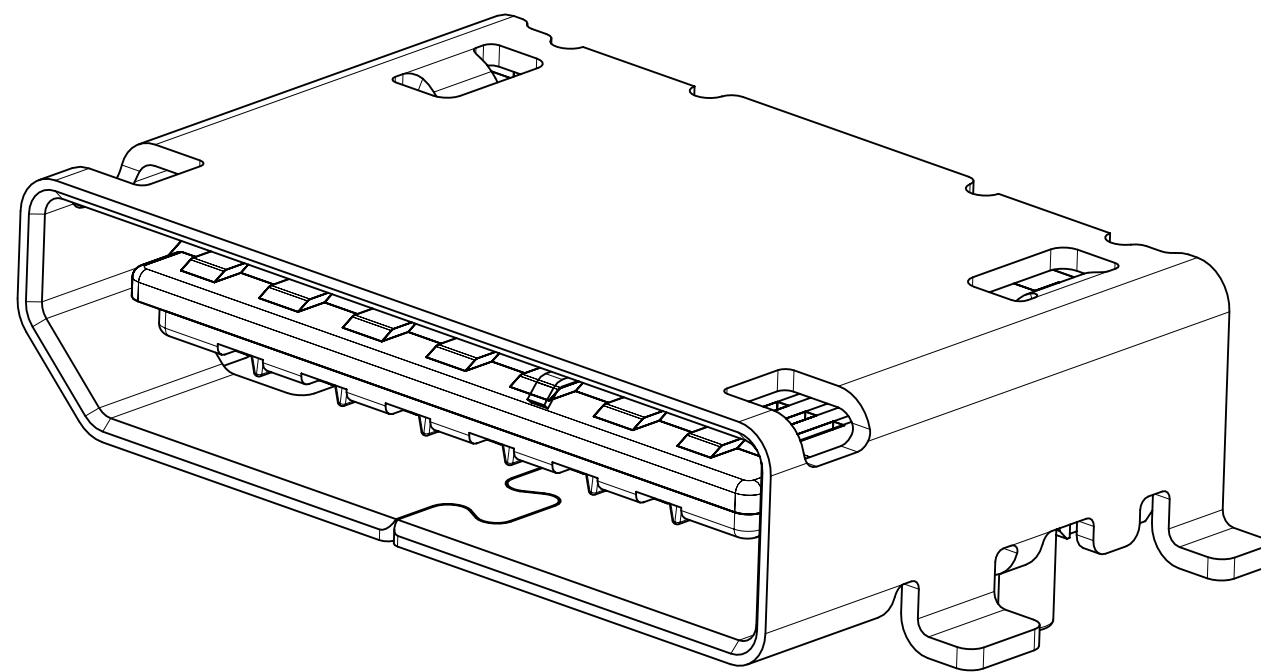
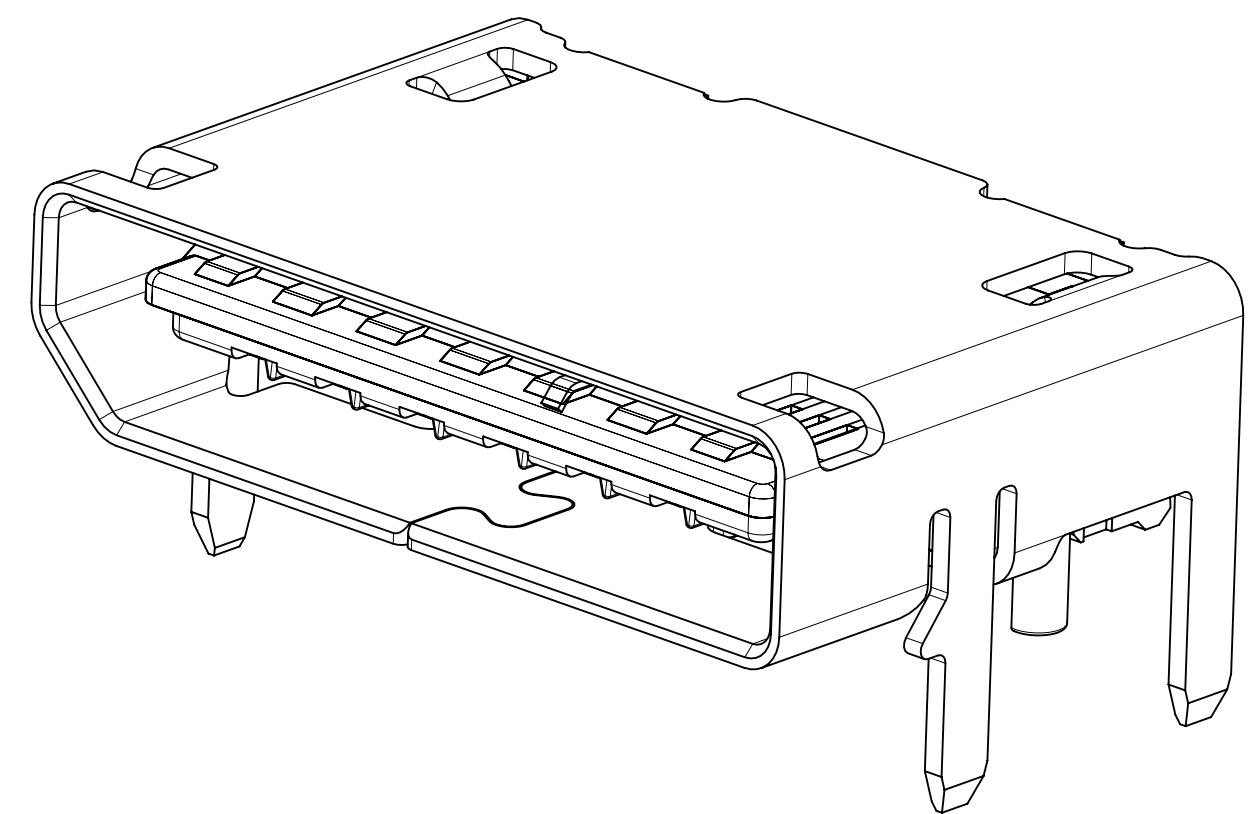


	20	19	18	17	16	15
M	STATUS		MATERIAL NUMBER	SHELL ATTACH OPTION	DIM 'T'	
	TOOLED		171982-0142	SMT	-	
L	TOOLED		171982-1142	TH	3	
	TOOLED		171982-2142	TH	2.36	
	TOOLED		171982-3142	TH	1.57	

42 CIRCUIT SMT SHELL



42 CIRCUIT THRU HOLE SHELL



NOTES:

1. MATERIALS:

HOUSING - LCP, GLASS FILLED THERMOPLASTIC, 94V-0
CONTACTS - HIGH PERFORMANCE COPPER ALLOY
SHIELD - STAINLESS STEEL

2. FINISH:

CONTACTS - 0.76µm MIN. GOLD MATING SIDE
0.05µm GOLD FLASH ON SOLDER TAILS
1.27µm MIN. NICKEL UNDERPLATE OVERALL

SHIELD - MATTE TIN OVER 1.27μm MIN. NICKEL

3. PRODUCT SPECIFICATION: PS-171982-0001

4. PACKAGING SPECIFICATION: PK-173307-0001

5. MATES WITH: MOLEX CABLE SERIES 100436
PER INDUSTRY STANDARD PCIe OCuLink OR SFF-8612

6. APPLICATION SPECIFICATION: AS-173162-0001

7. COSMETIC SPECIFICATION: PS-45499-002 CALASS B

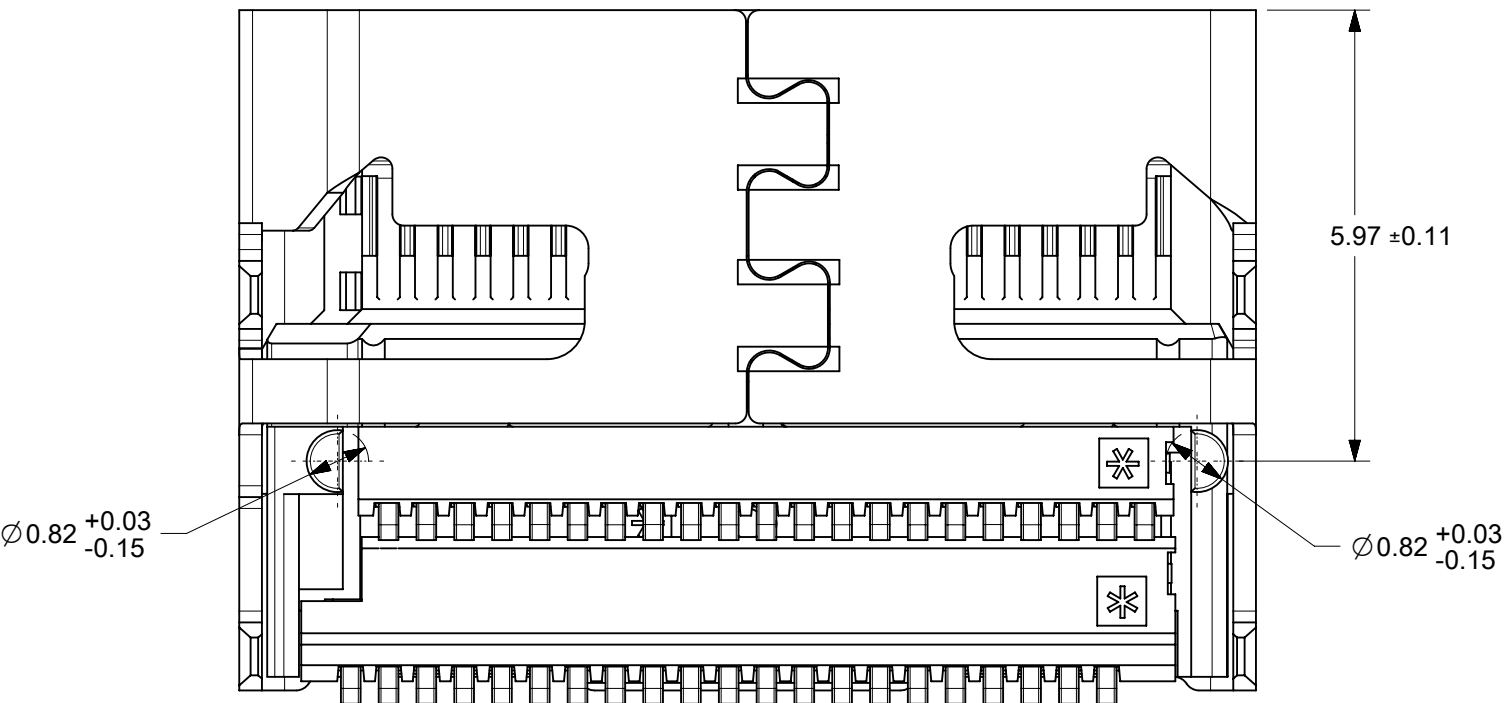
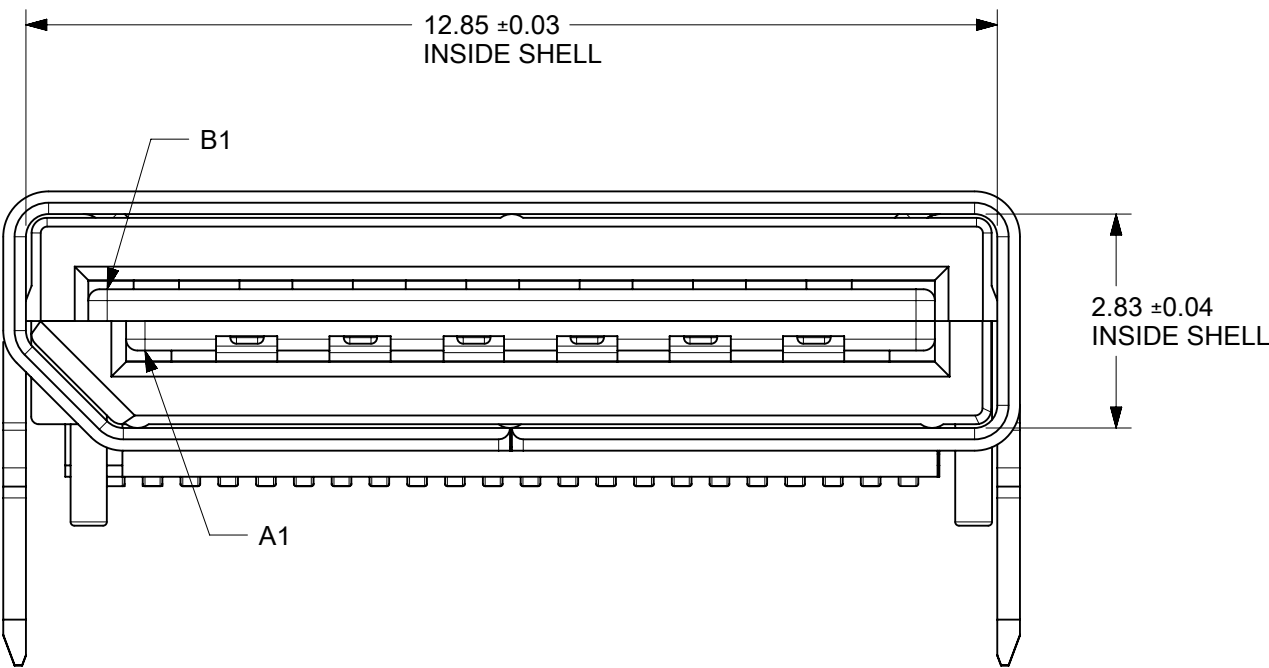
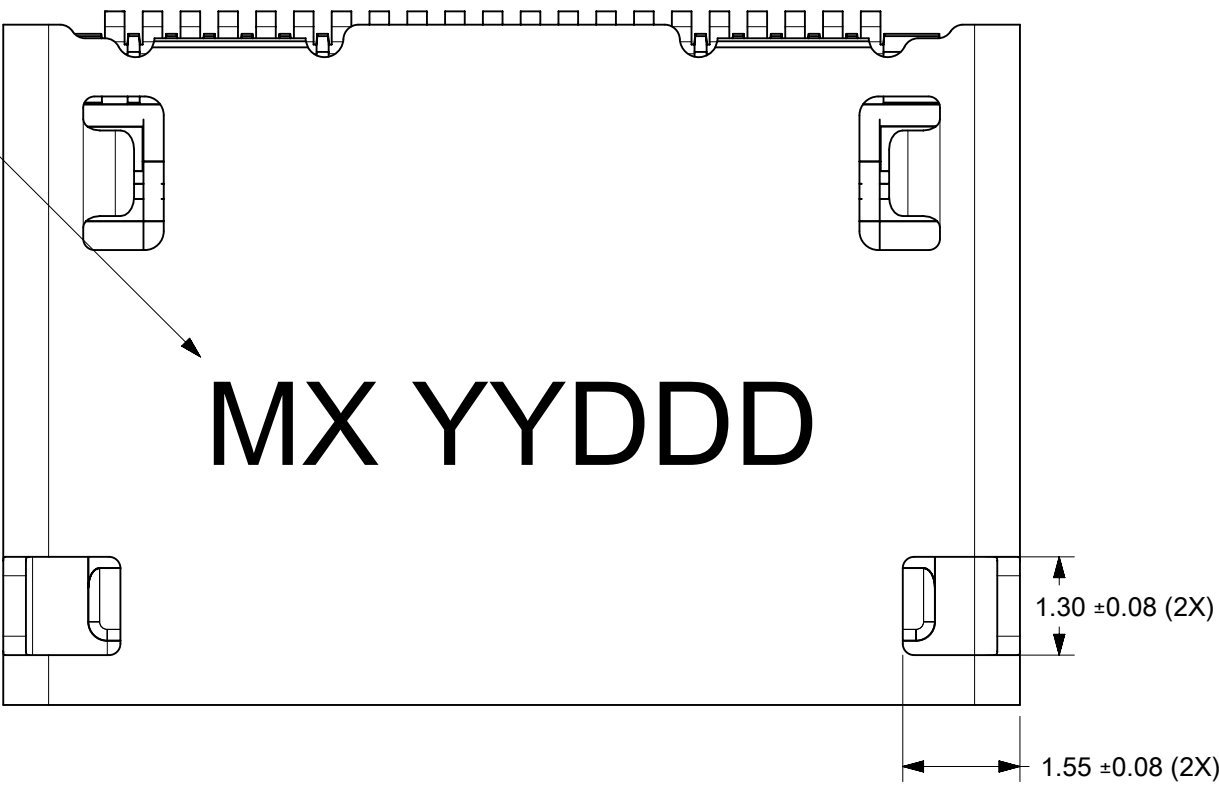
DOCUMENT STATUS	P1	PLEASE DATE	2021/08/30	09:41:22
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##### F A = 0 F E = 0 F D = 0 DIVISIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
		DIMENSION UNITS		SCALE		CURRENT REV DESC:			mo lex						
		mm		10:1											
		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 672997 DRWN: ABELD22021/07/05 CHK'D: JKACHLIC2021/08/30 APPR: JKACHLIC2021/08/30 INITIAL REVISION: DRWN: MJANTELEZIO2015/10/21 APPR: MBANAKIS2015/11/09			NANO-PITCH I/O RIGHT ANGLE 4X						
		ANGULAR TOL ± 0.5 °													
		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		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				D-SIZE		171982						GENERAL MARKET		1 OF 6	

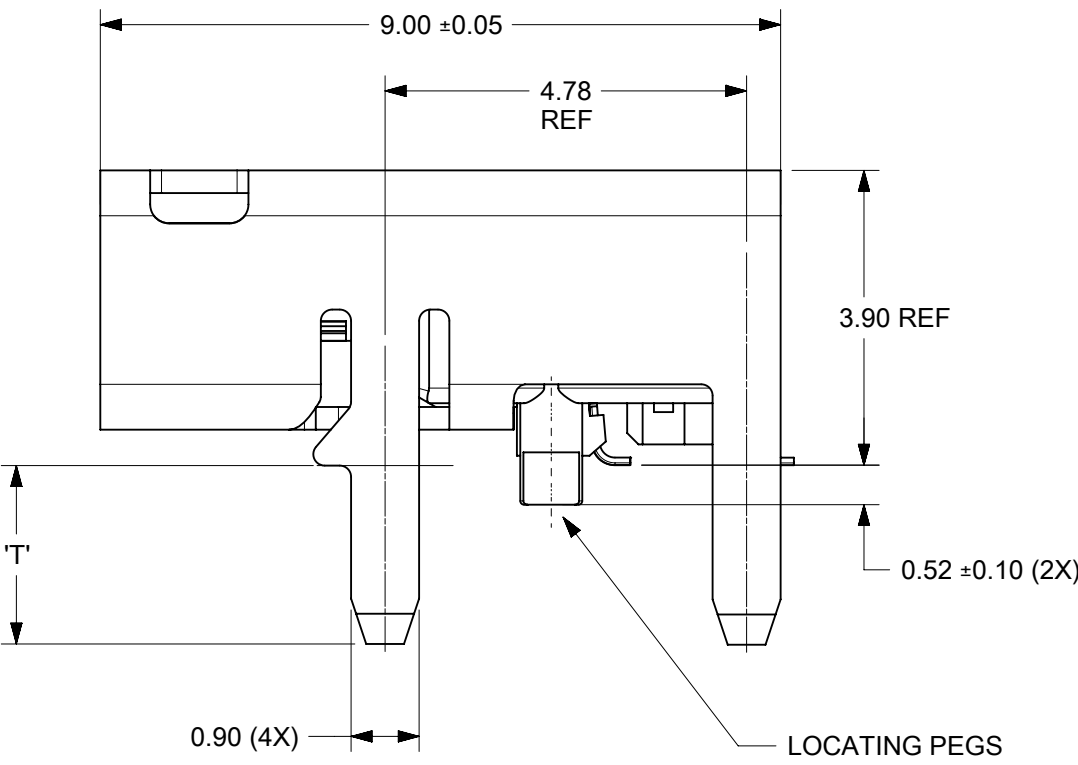
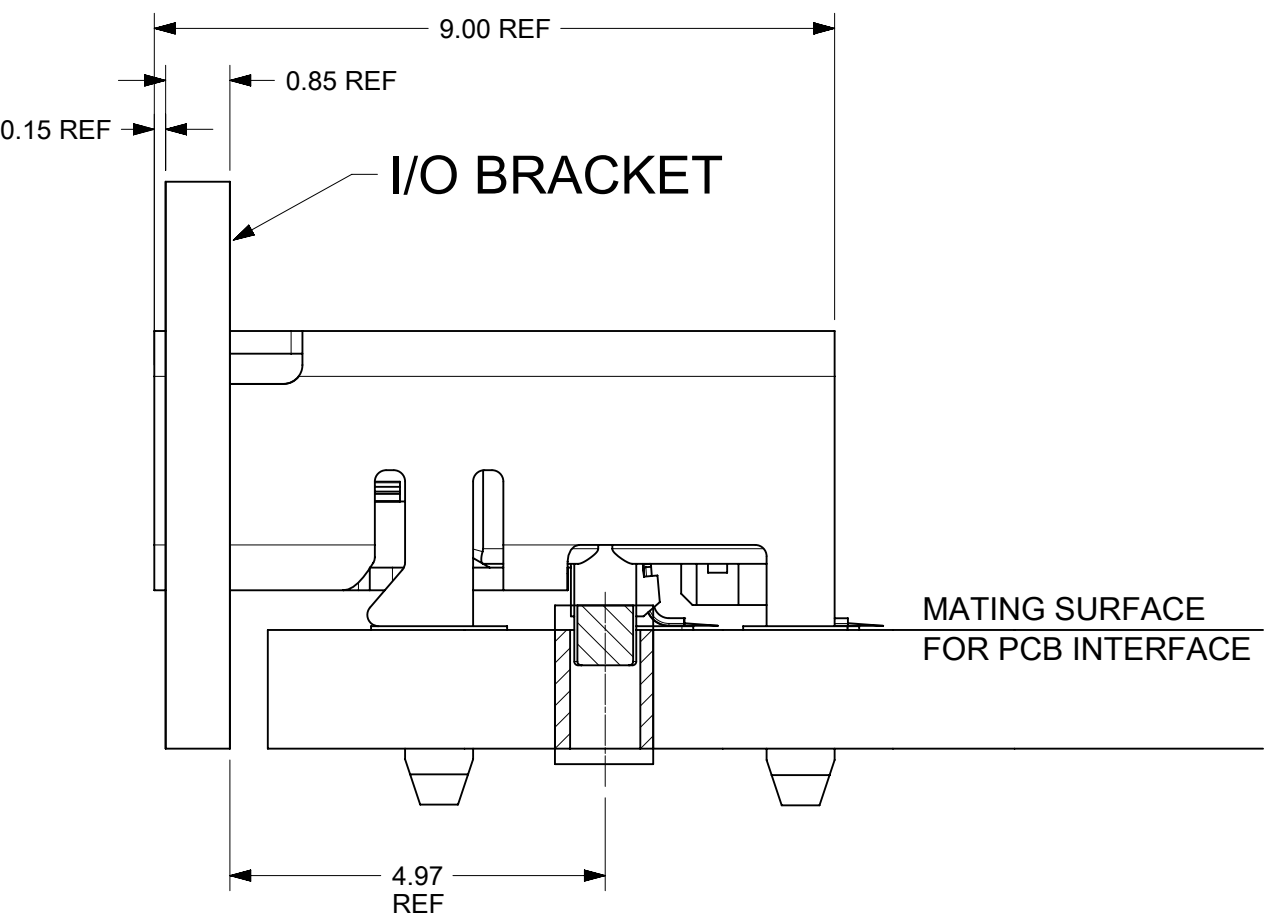
42 CIRCUIT TH ASSEMBLY

SEE NOTE #1

MX YYDDD



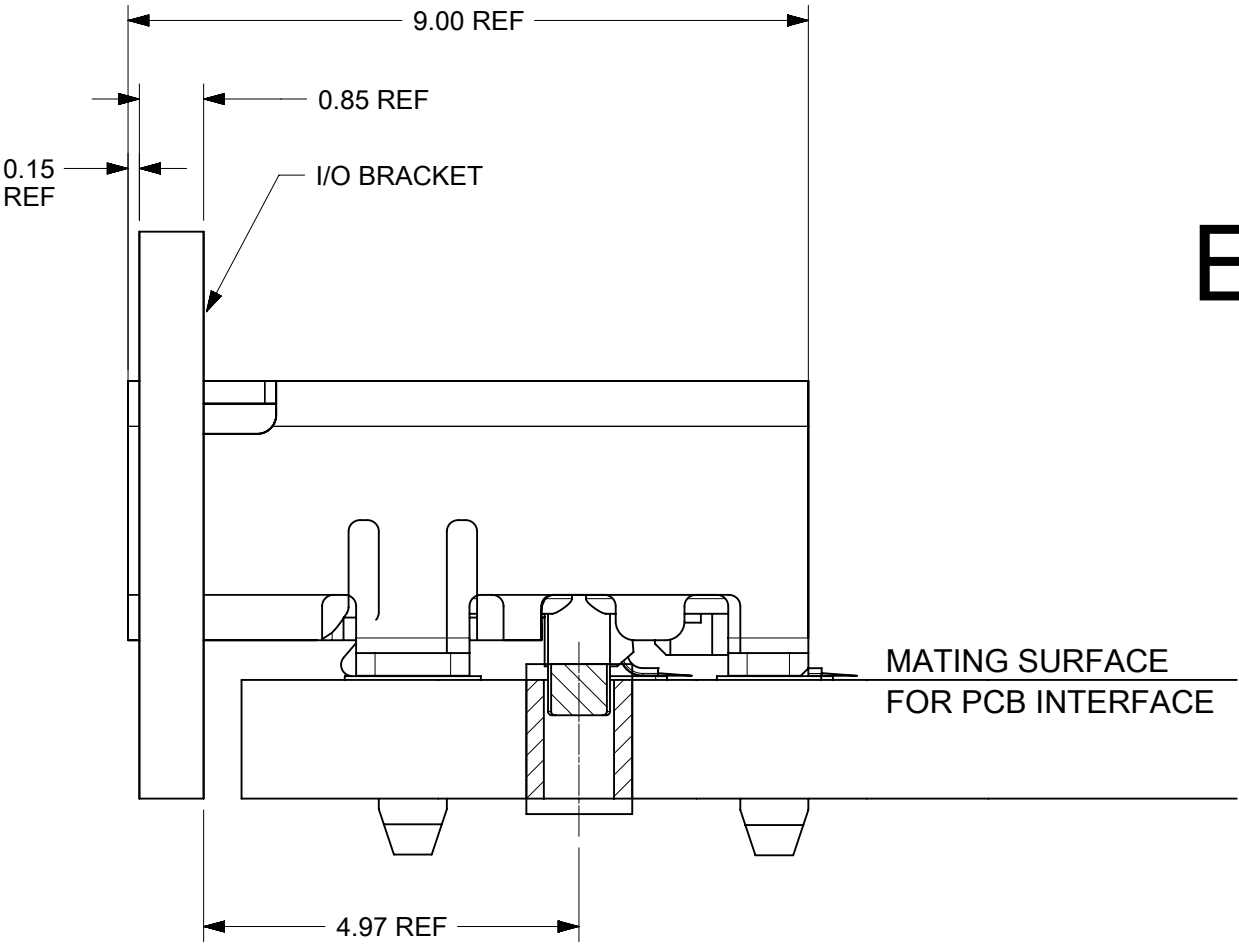
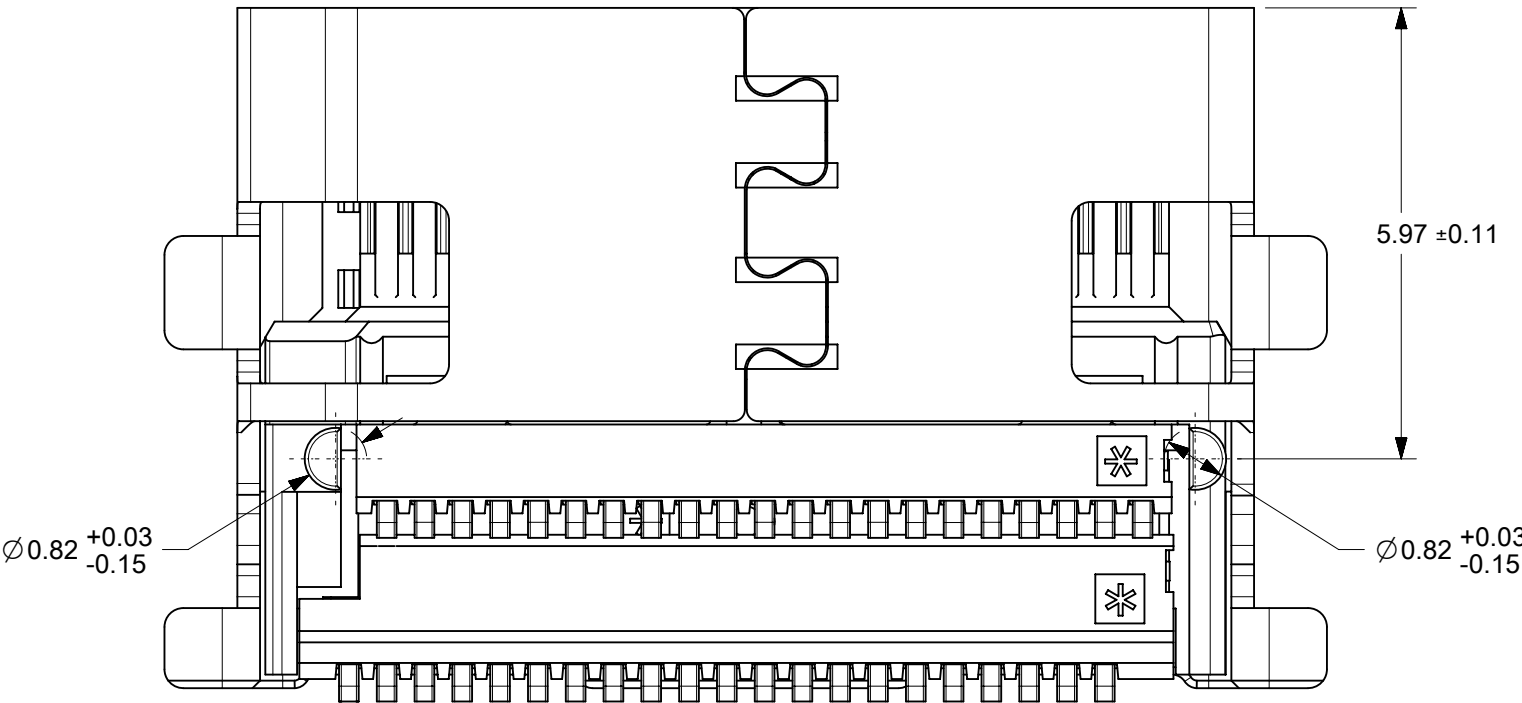
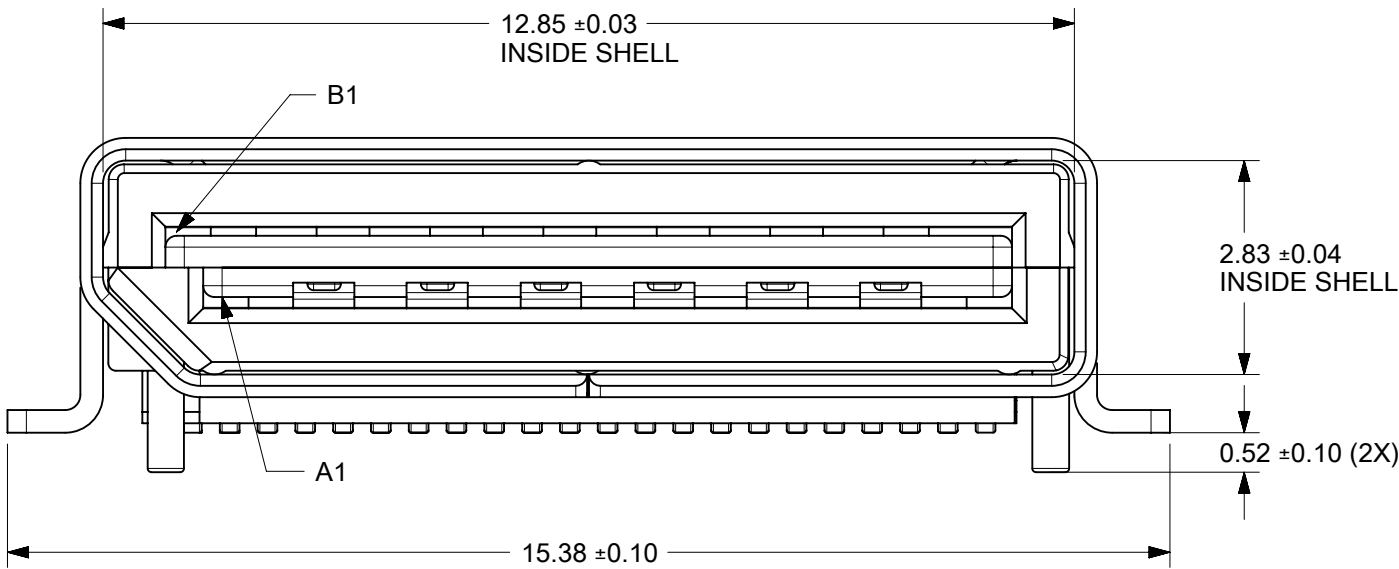
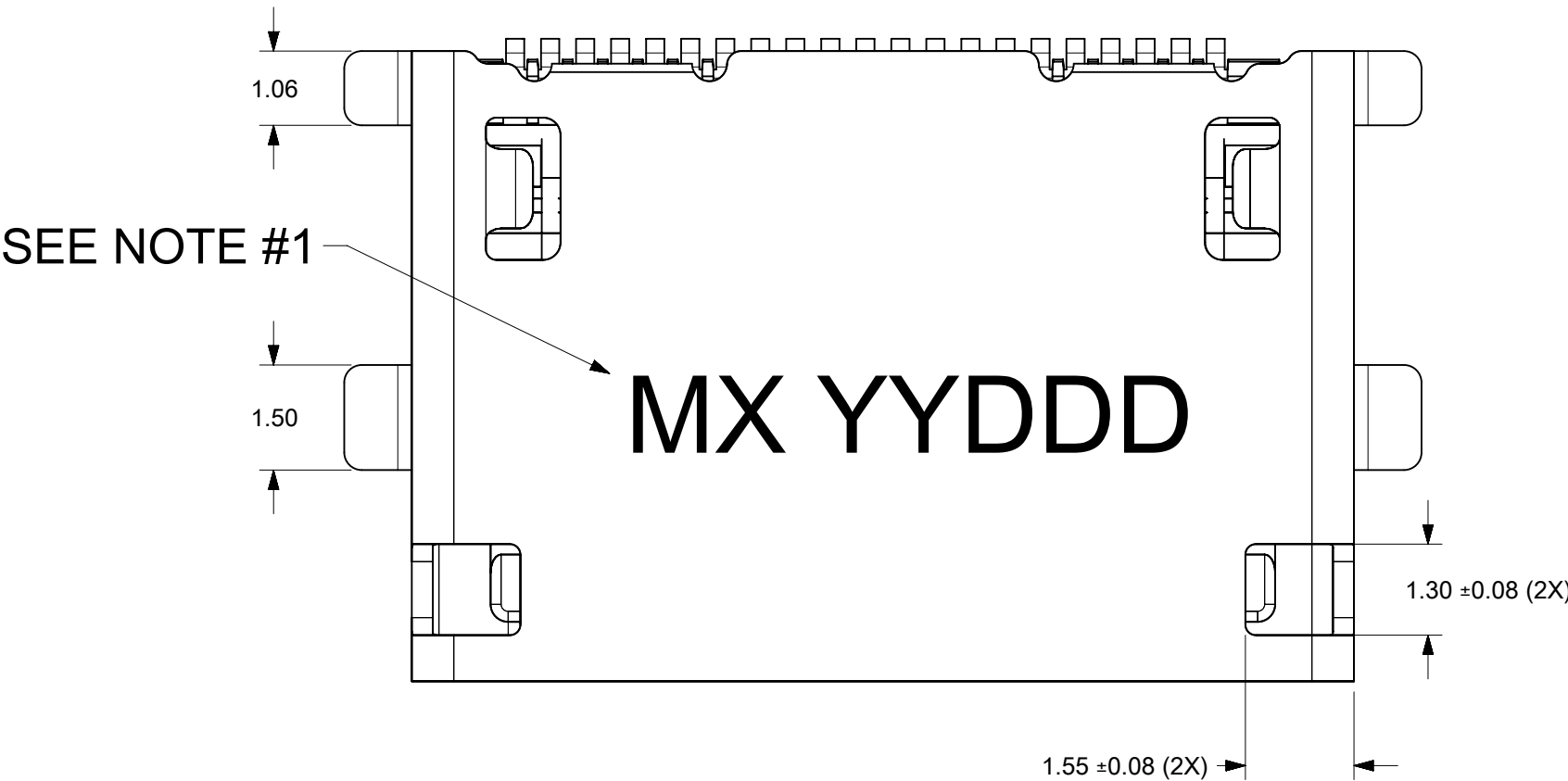
EXTERNAL



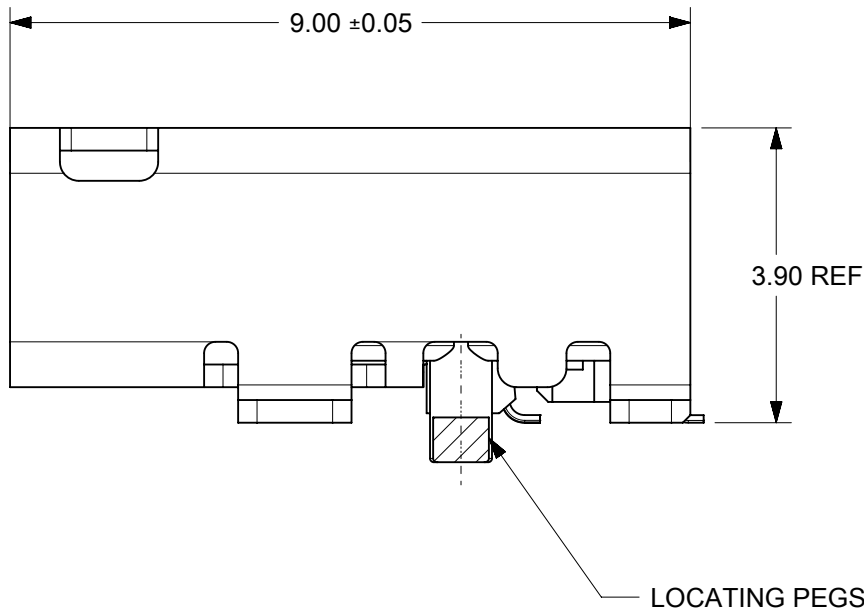
- NOTES:
1. MANUFACTURED DATE CODE (JULIAN CALENDAR)
MX YYDDD
DAY OF THE YEAR
LAST TWO DIGITS OF THE YEAR
MOLEX
2. SOLDER TAIL COPLANARITY 0.10 MAX

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																		
 = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC:			molex											
	mm		10:1																
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 672997			NANO-PITCH I/O RIGHT ANGLE 4X											
	ANGULAR TOL ± 0.5°																		
 = 0	4 PLACES		±		DRWN: ABELD2			2021/07/05											
	3 PLACES		±		CHK'D: JKACHLIC			2021/08/30											
#####	2 PLACES		± 0.13		APPR: JKACHLIC			2021/08/30											
	1 PLACE		± 0.25		INITIAL REVISION:			PRODUCT CUSTOMER DRAWING											
0 PLACES		±		DRWN: MJANTELEZIO			2015/10/21					DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
					APPR: MBANAKIS			2015/11/09		SD-171982-1000				PSD		001		J2	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER				SHEET NUMBER		
							C-SIZE		171982				GENERAL MARKET				2 OF 6		

42 CIRCUIT SMT ASSEMBLY



EXTERNAL



- NOTES:
- MANUFACTURED DATE CODE (JULIAN CALENDAR)
MX YYDDD
DAY OF THE YEAR
LAST TWO DIGITS OF THE YEAR
MOLEX
 - SOLDER TAIL COPLANARITY 0.10 MAX

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
= 0	DIMENSION UNITS		SCALE		CURRENT REV DESC:			molex												
	mm		10:1																	
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 672997			NANO-PITCH I/O RIGHT ANGLE 4X												
ANGULAR TOL ± 0.5 °																				
= 0	4 PLACES		±		DRWN: ABELD2			2021/07/05												
#####	3 PLACES		±		CHK'D: JKACHLIC			2021/08/30												
	2 PLACES		± 0.13		APPR: JKACHLIC			2021/08/30												
	1 PLACE		± 0.25		INITIAL REVISION:			PRODUCT CUSTOMER DRAWING												
	0 PLACES		±		DRWN: MJANTELEZIO															
					APPR: MBANAKIS			2015/10/21												
							2015/11/09													
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
									C-SIZE		171982		SD-171982-1000		PSD		001		J2	
													MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
															GENERAL MARKET				3 OF 6	

31 ± 0.03

0.05 A B

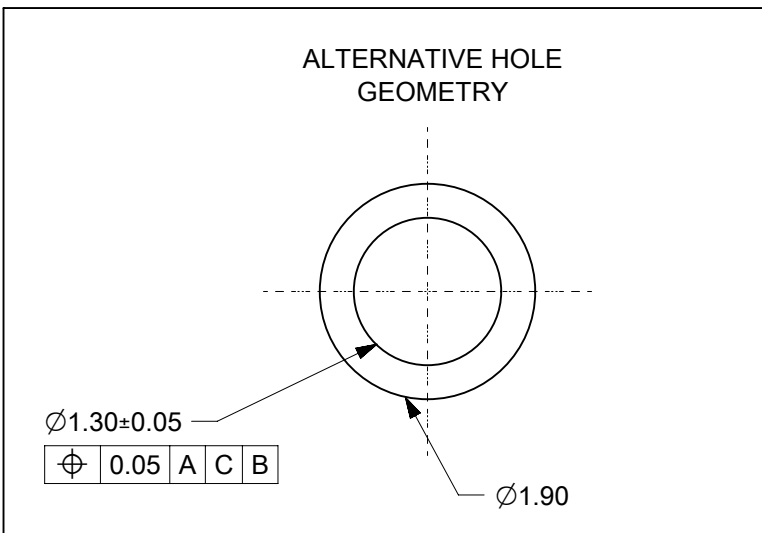
0.91 ± 0.03

0.05 A C

0.50

DETAIL A

FULL



FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
F_A = 0 F_E = 0 F_D = 0 #####	DIMENSION UNITS mm		SCALE 15:1		CURRENT REV DESC: EC NO: 672997 DRWN: ABELD2 2021/07/05 CHK'D: JKACHLIC 2021/08/30 APPR: JKACHLIC 2021/08/30		molex			
	GENERAL TOLERANCES (UNLESS SPECIFIED)						NANO-PITCH I/O RIGHT ANGLE 4X			
	ANGULAR TOL ± 0.5 °				PRODUCT CUSTOMER DRAWING					
	4 PLACES ±								DOCUMENT NUMBER SD-171982-1000	
	3 PLACES ±									
	2 PLACES ± 0.13									
	1 PLACE ± 0.25									
0 PLACES ±				INITIAL REVISION: DRWN: MJANTELEZIO 2015/10/21 APPR: MBANAKIS 2015/11/09		MATERIAL NUMBER CUSTOMER GENERAL MARKET		SHEET NUMBER 4 OF 6		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 								DRAWING C-SIZE

42 CIRCUIT SMT RECOMMENDED FOOTPRINT

0.91 ± 0.03
0.31 ± 0.03
0.50
FULL RADIUS RECOMMENDED
DETAIL B
SCALE 50:1

6.91 ± 0.05
10.50
5.25
4.75
B1
SEE DETAIL B
A1
Ø 1.00 ± 0.05
2X NPTH
2.19
0.71 ± 0.10
4.01 ± 0.05
10.42 ± 0.15
6.47 ± 0.15
2.90 ± 0.15
16.63 ± 0.15
EDGE OF PCB
FOR EXTERNAL
SEE NOTE 3
1.81 ± 0.10
1.38 ± 0.10
1.81 ± 0.10
1.80 ± 0.10
4.46 ± 0.10

NOTES:

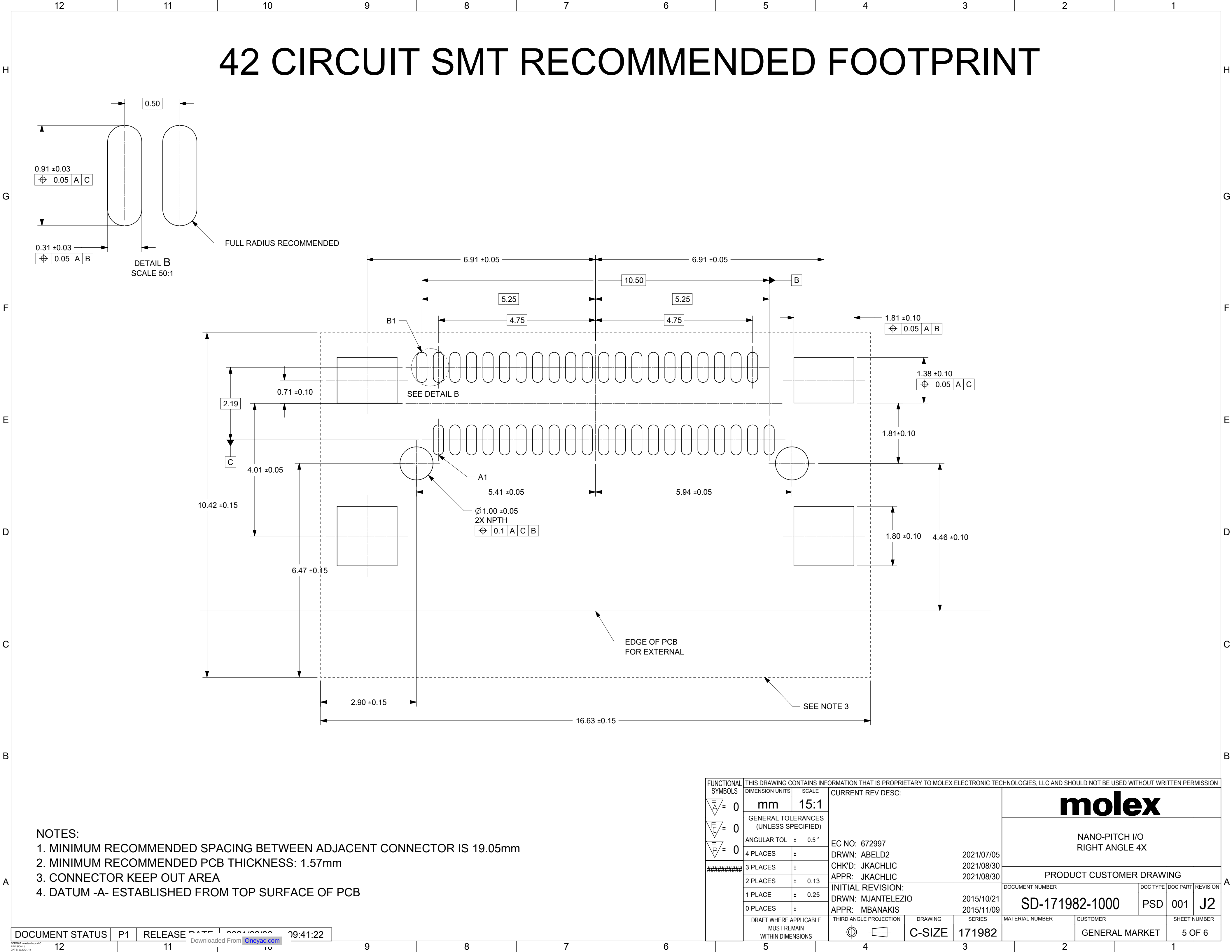
1. MINIMUM RECOMMENDED SPACING BETWEEN ADJACENT CONNECTOR IS 19.05mm
2. MINIMUM RECOMMENDED PCB THICKNESS: 1.57mm
3. CONNECTOR KEEP OUT AREA
4. DATUM -A- ESTABLISHED FROM TOP SURFACE OF PCB

FUNCTIONAL 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:
$\frac{F}{A} = 0$	mm	15:1
$\frac{F}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)	
$\frac{F}{P} = 0$	ANGULAR TOL ± 0.5°	
#####	4 PLACES	±
	3 PLACES	±
	2 PLACES	± 0.13
	1 PLACE	± 0.25
	0 PLACES	±
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

EC NO: 672997		2021/07/05	
DRWN: ABELD2		2021/08/30	
CHK'D: JKACHLIC		2021/08/30	
APPR: JKACHLIC		2021/08/30	
INITIAL REVISION:		2015/10/21	
DRWN: MJANTELEZIO		2015/11/09	
APPR: MBANAKIS		2015/11/09	
THIRD ANGLE PROJECTION		DRAWING	SERIES
C-SIZE		171982	

DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-171982-1000		PSD	001	J2
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
		GENERAL MARKET		5 OF 6

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42 CIRCUIT SMT RECOMMENDED FOOTPRINT

0.50

0.91 ± 0.03
⌀ 0.05 A C

0.31 ± 0.03
⌀ 0.05 A B

DETAIL B
SCALE 50:1

FULL RADIUS RECOMMENDED

6.91 ± 0.05

10.50

5.25

4.75

1.81 ± 0.10
⌀ 0.05 A B

1.38 ± 0.10
⌀ 0.05 A C

1.81 ± 0.10

4.46 ± 0.10

1.80 ± 0.10

5.94 ± 0.05

5.41 ± 0.05

Ø 1.00 ± 0.05
2X NPTH
⌀ 0.1 A C B

SEE DETAIL B

SEE NOTE 3

EDGE OF PCB
FOR EXTERNAL

2.90 ± 0.15

16.63 ± 0.15

6.47 ± 0.15

4.01 ± 0.05

2.19

0.71 ± 0.10

10.42 ± 0.15

2

1

3

4

5

6

7

8

9

10

11

12

NOTES:

1. MINIMUM RECOMMENDED SPACING BETWEEN ADJACENT CONNECTOR IS 19.05mm
2. MINIMUM RECOMMENDED PCB THICKNESS: 1.57mm
3. CONNECTOR KEEP OUT AREA
4. DATUM -A- ESTABLISHED FROM TOP SURFACE OF PCB

FUNCTIONAL SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC:
$\frac{F}{A} = 0$	mm	15:1	EC NO: 672997
$\frac{F}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: ABELD2 2021/07/05
$\frac{F}{P} = 0$	ANGULAR TOL ± 0.5°		CHK'D: JKACHLIC 2021/08/30
#####	4 PLACES	±	APPR: JKACHLIC 2021/08/30
	3 PLACES	±	INITIAL REVISION:
	2 PLACES	± 0.13	DRWN: MJANTELEZIO 2015/10/21
	1 PLACE	± 0.25	APPR: MBANAKIS 2015/11/09
	0 PLACES	±	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION
			DRAWING C-SIZE
			SERIES 171982

DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-171982-1000		PSD	001	J2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	5 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	DATE	TIME
Downloaded From		2024/08/26	09:41:22	

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- 42 CIRCUIT SMT RECOMMENDED FOOTPRINT

0.50

0.91 ± 0.03
⌀ 0.05 A C

0.31 ± 0.03
⌀ 0.05 A B

DETAIL B
SCALE 50:1

FULL RADIUS RECOMMENDED

6.91 ± 0.05

10.50

5.25

4.75

1.81 ± 0.10
⌀ 0.05 A B

1.38 ± 0.10
⌀ 0.05 A C

1.81 ± 0.10

4.46 ± 0.10

1.80 ± 0.10

5.94 ± 0.05

5.41 ± 0.05

Ø 1.00 ± 0.05
2X NPTH
⌀ 0.1 A C B

SEE DETAIL B

SEE NOTE 3

EDGE OF PCB
FOR EXTERNAL

2.90 ± 0.15

16.63 ± 0.15

6.47 ± 0.15

4.01 ± 0.05

2.19

0.71 ± 0.10

10.42 ± 0.15

2

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NOTES:

 1. MINIMUM RECOMMENDED SPACING BETWEEN ADJACENT CONNECTOR IS 19.05mm
 2. MINIMUM RECOMMENDED PCB THICKNESS: 1.57mm
 3. CONNECTOR KEEP OUT AREA
 4. DATUM -A- ESTABLISHED FROM TOP SURFACE OF PCB

FUNCTIONAL SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC:
$\frac{F}{A} = 0$	mm	15:1	EC NO: 672997
$\frac{F}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: ABELD2 2021/07/05
$\frac{F}{P} = 0$	ANGULAR TOL ± 0.5°		CHK'D: JKACHLIC 2021/08/30
#####	4 PLACES	±	APPR: JKACHLIC 2021/08/30
	3 PLACES	±	INITIAL REVISION:
	2 PLACES	± 0.13	DRWN: MJANTELEZIO 2015/10/21
	1 PLACE	± 0.25	APPR: MBANAKIS 2015/11/09
	0 PLACES	±	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION
			DRAWING C-SIZE
			SERIES 171982

DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-171982-1000		PSD	001	J2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	5 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	DATE	TIME
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42 CIRCUIT SMT RECOMMENDED FOOTPRINT

0.50

0.91 ± 0.03
⌀ 0.05 A C

0.31 ± 0.03
⌀ 0.05 A B

DETAIL B
SCALE 50:1

FULL RADIUS RECOMMENDED

6.91 ± 0.05

10.50

5.25

4.75

1.81 ± 0.10
⌀ 0.05 A B

1.38 ± 0.10
⌀ 0.05 A C

1.81 ± 0.10

4.46 ± 0.10

1.80 ± 0.10

5.94 ± 0.05

5.41 ± 0.05

Ø 1.00 ± 0.05
2X NPTH
⌀ 0.1 A C B

SEE DETAIL B

SEE NOTE 3

EDGE OF PCB
FOR EXTERNAL

2.90 ± 0.15

16.63 ± 0.15

6.47 ± 0.15

4.01 ± 0.05

2.19

0.71 ± 0.10

10.42 ± 0.15

2

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NOTES:

1. MINIMUM RECOMMENDED SPACING BETWEEN ADJACENT CONNECTOR IS 19.05mm
2. MINIMUM RECOMMENDED PCB THICKNESS: 1.57mm
3. CONNECTOR KEEP OUT AREA
4. DATUM -A- ESTABLISHED FROM TOP SURFACE OF PCB

FUNCTIONAL SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC:
$\frac{F}{A} = 0$	mm	15:1	EC NO: 672997
$\frac{F}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: ABELD2 2021/07/05
$\frac{F}{P} = 0$	ANGULAR TOL ± 0.5°		CHK'D: JKACHLIC 2021/08/30
#####	4 PLACES	±	APPR: JKACHLIC 2021/08/30
	3 PLACES	±	INITIAL REVISION:
	2 PLACES	± 0.13	DRWN: MJANTELEZIO 2015/10/21
	1 PLACE	± 0.25	APPR: MBANAKIS 2015/11/09
	0 PLACES	±	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION
			DRAWING C-SIZE
			SERIES 171982

DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-171982-1000		PSD	001	J2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	5 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	DATE	TIME
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