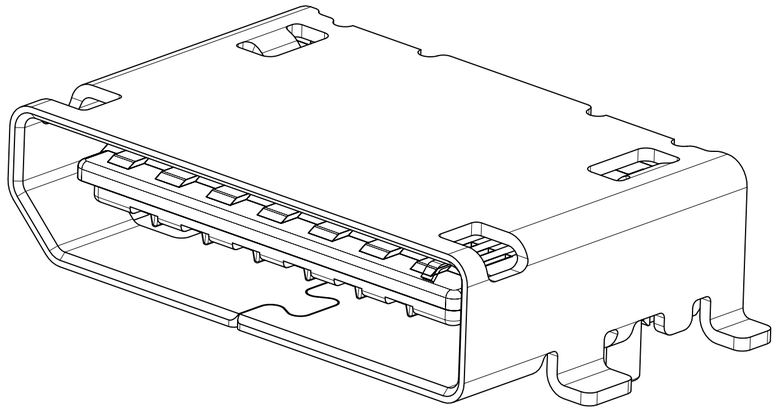
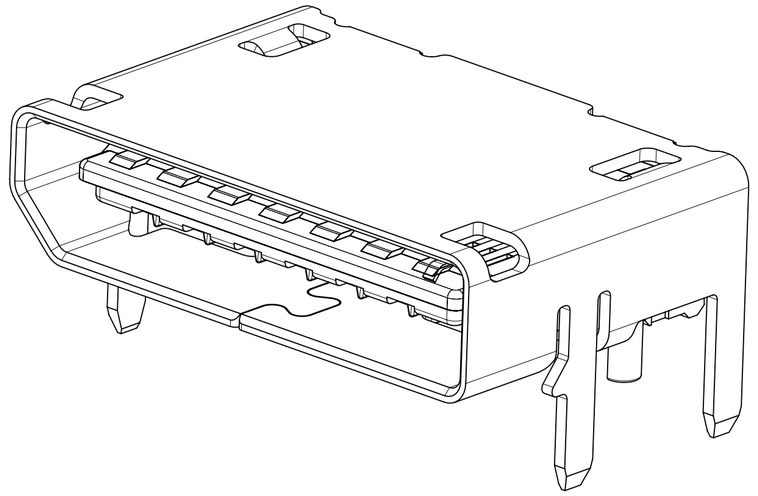
42 CIRCUIT SMT SHELL



42 CIRCUIT THRU HOLE SHELL



NOTES:

1. MATERIALS:
   HOUSING - LCP,GLASSS 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-173162-0001

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

STATUS	MATERIAL NUMBER	SHELL ATTACH OPTION	DIM 'T'
TOOLED	171982-0142	SMT	-
TOOLED	171982-1142	TH	3
TOOLED	171982-3142	TH	1.57

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

DIMENSION UNITS	SCALE
MM	10:1

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: REMOVED OBSOLETED PART NUMBER AS PER PCN #516666

STATUS:	Production	
DRWN:	Pranav Arunkumar	2026-03-04
CHK'D:	Ganesh Rao B	2026-03-27
APPR:	Gurunandan GA	2026-03-27

molex

NANO-PITCH I/O
RIGHT ANGLE 4X

PRODUCT CUSTOMER DRAWING

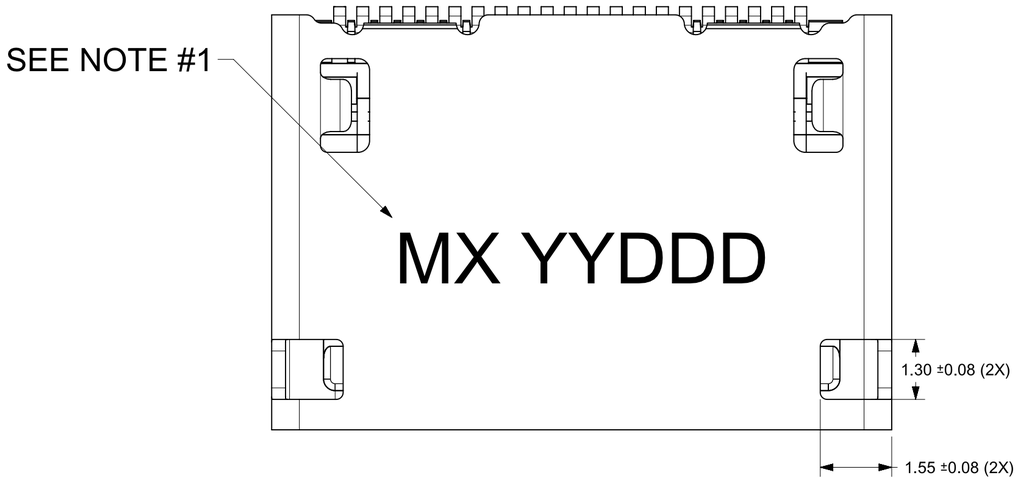
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171982-1000	PSD	001	J4

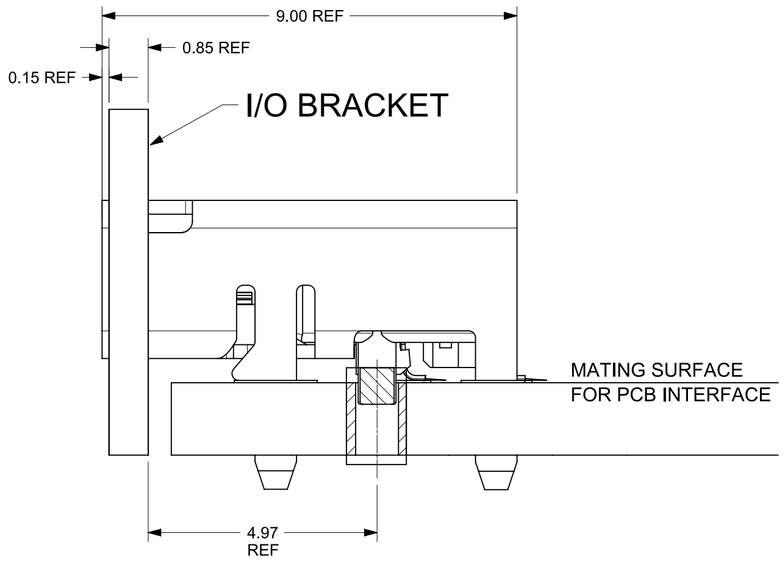
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	C-SIZE	171982	SEE TABLE	GENERAL MARKET	1 OF 6

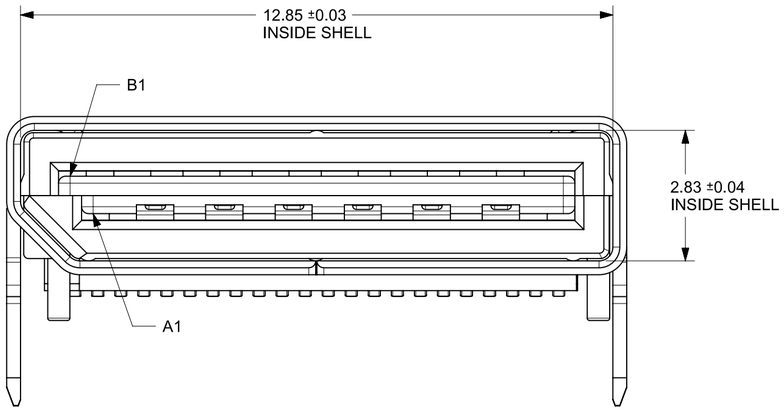
FORMAT TC-drprod-C
REVISION: B
DATE: 2022/08/01

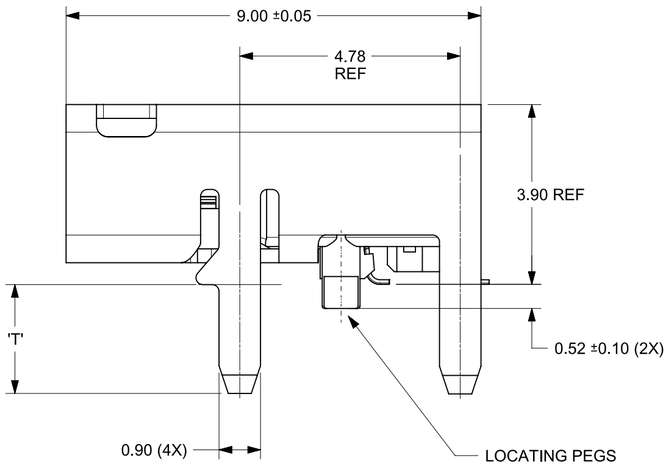
42 CIRCUIT TH ASSEMBLY

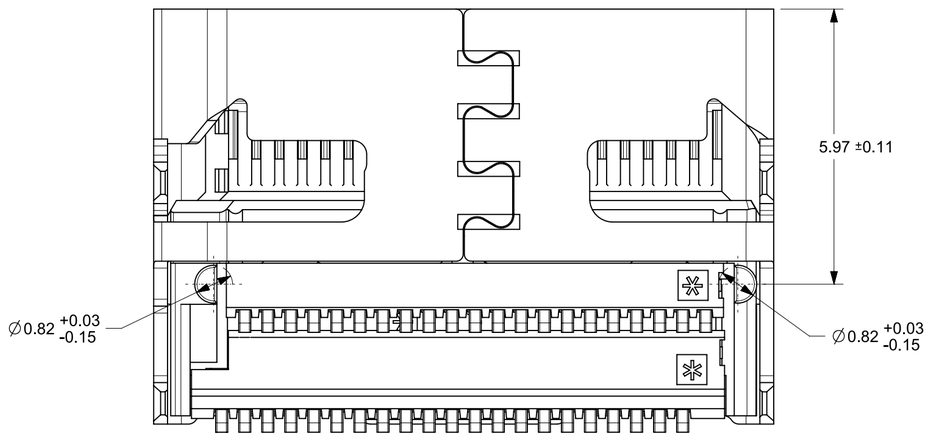
EXTERNAL











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

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DIMENSION UNITS	SCALE
MM	10:1

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: REMOVED OBSOLETED PART NUMBER AS PER PCN #516666

STATUS: Production

DRWN:	Pranav Arunkumar	2026-03-04
CHK'D:	Ganesh Rao B	2026-03-27
APPR:	Gurunandan GA	2026-03-27

molex

NANO-PITCH I/O
RIGHT ANGLE 4X

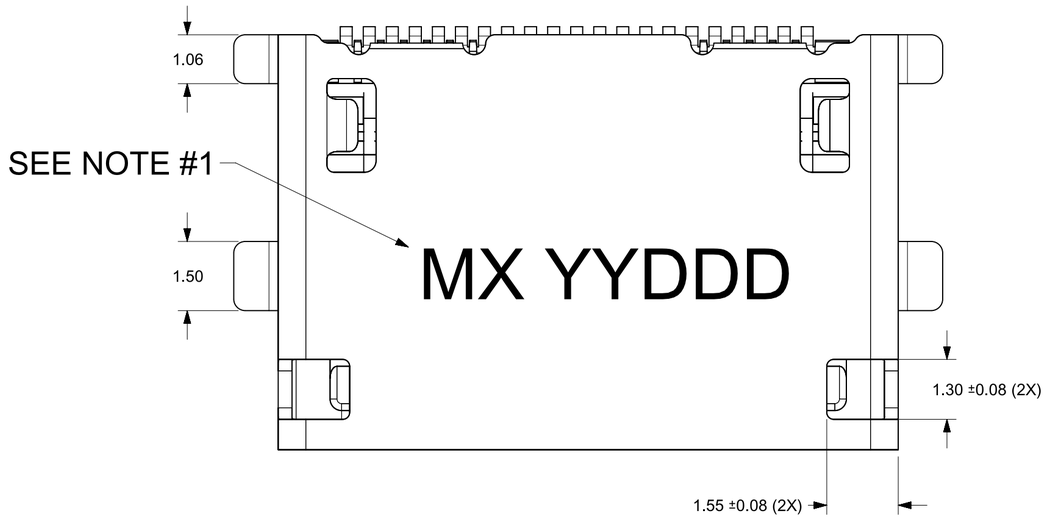
PRODUCT CUSTOMER DRAWING

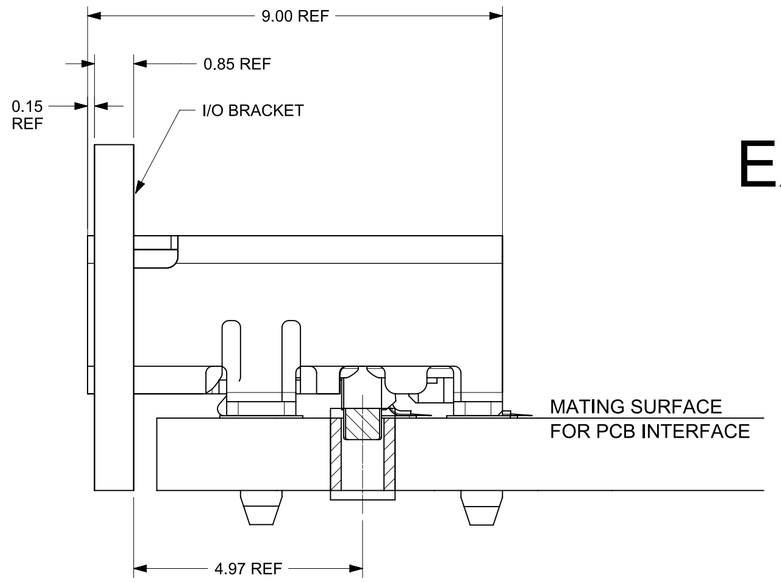
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171982-1000	PSD	001	J4

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	C-SIZE	171982	SEE TABLE	GENERAL MARKET	2 OF 6

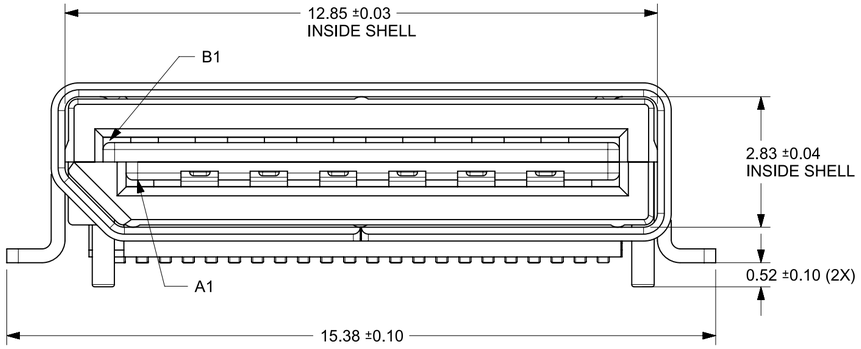
FORMAT: TC-tb-prod-C
REVISION: B
DATE: 2022/08/01

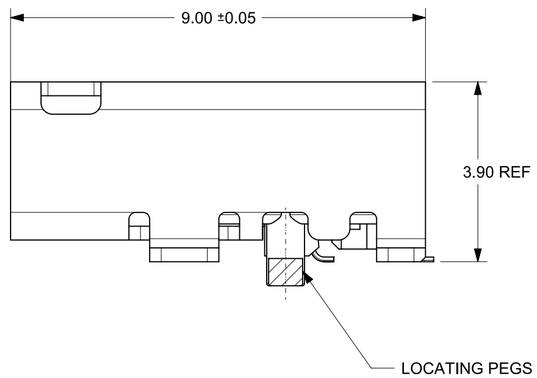
42 CIRCUIT SMT ASSEMBLY

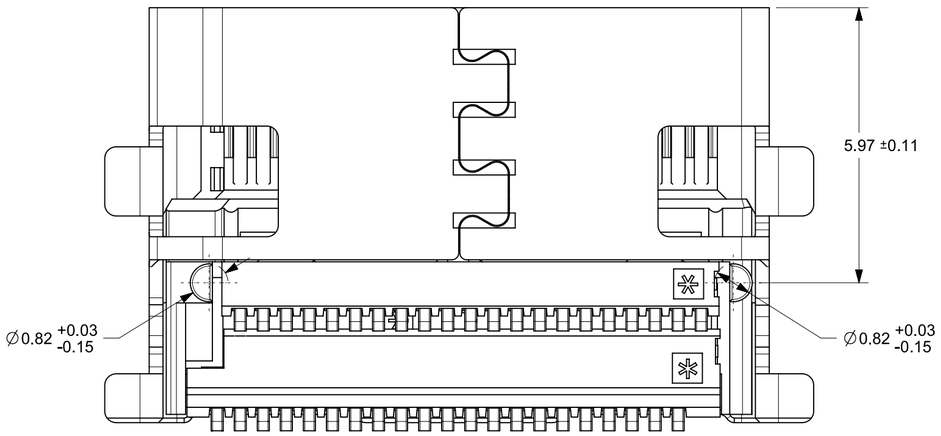




EXTERNAL







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

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

DIMENSION UNITS	SCALE
MM	10:1

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: REMOVED OBSOLETED PART NUMBER AS PER PCN #516666

STATUS:	Production	
DRWN:	Pranav Arunkumar	2026-03-04
CHK'D:	Ganesh Rao B	2026-03-27
APPR:	Gurunandan GA	2026-03-27

molex

NANO-PITCH I/O
RIGHT ANGLE 4X

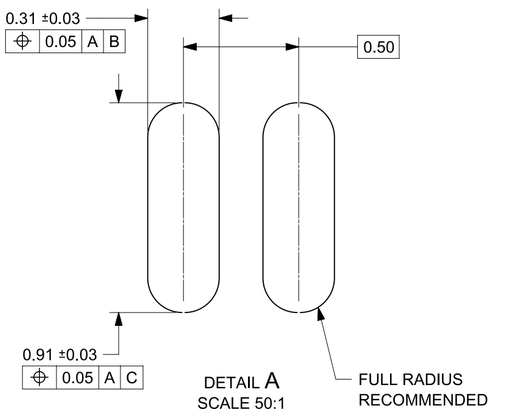
PRODUCT CUSTOMER DRAWING

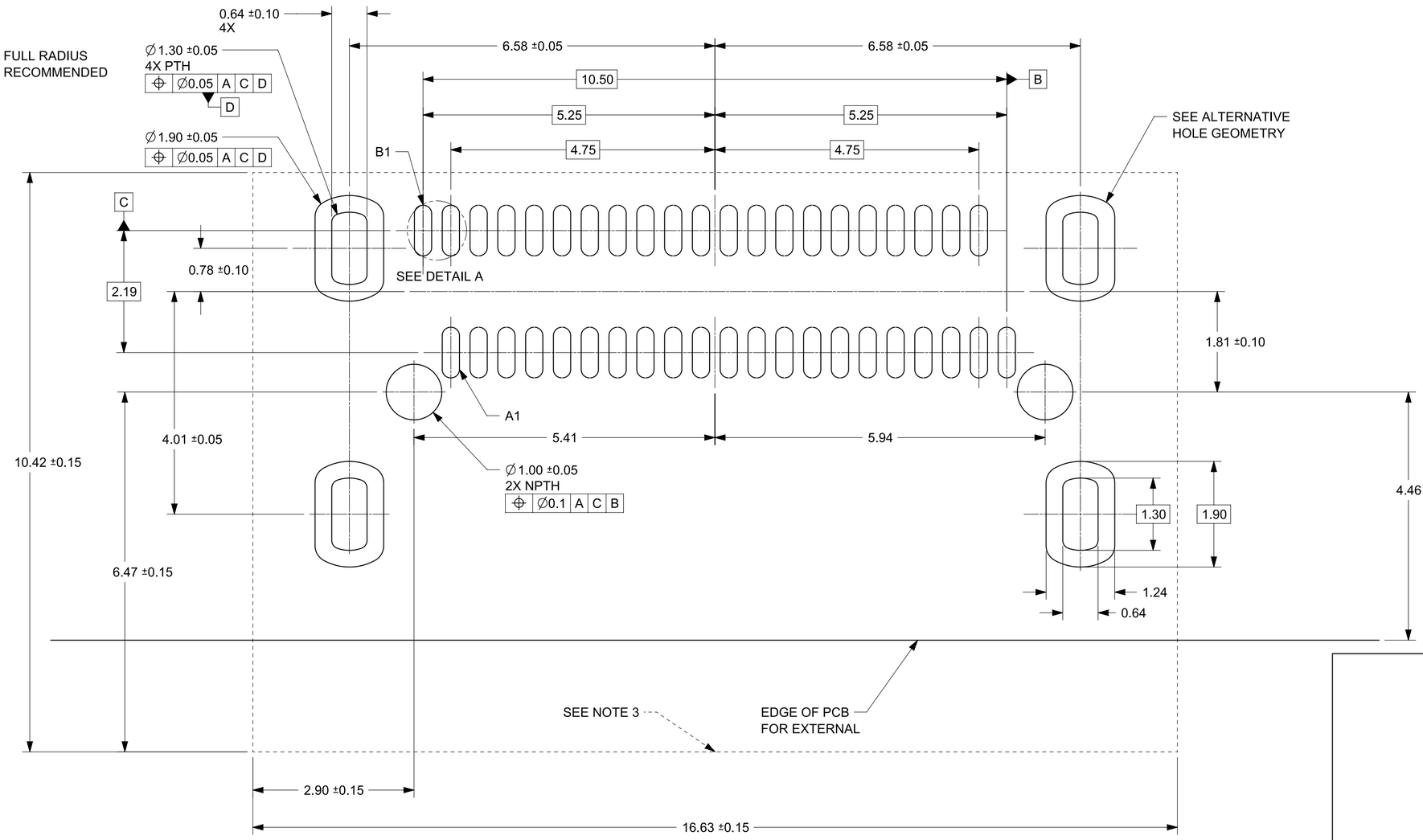
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171982-1000	PSD	001	J4

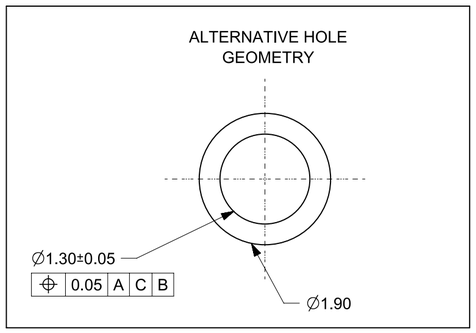
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	C-SIZE	171982	SEE TABLE	GENERAL MARKET	3 OF 6

FORMAT: TC-tb-prod-C
REVISION: B
DATE: 2022/08/01

42 CIRCUIT TAIL RECOMMENDED FOOTPRINT







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

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DIMENSION UNITS	SCALE
MM	15:1

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: REMOVED OBSOLETED PART NUMBER AS PER PCN #516666

STATUS: Production

DRWN:	Pranav Arunkumar	2026-03-04
CHK'D:	Ganesh Rao B	2026-03-27
APPR:	Gurunandan GA	2026-03-27

THIRD ANGLE PROJECTION | DRAWING: C-SIZE | SERIES: 171982

molex

NANO-PITCH I/O
RIGHT ANGLE 4X

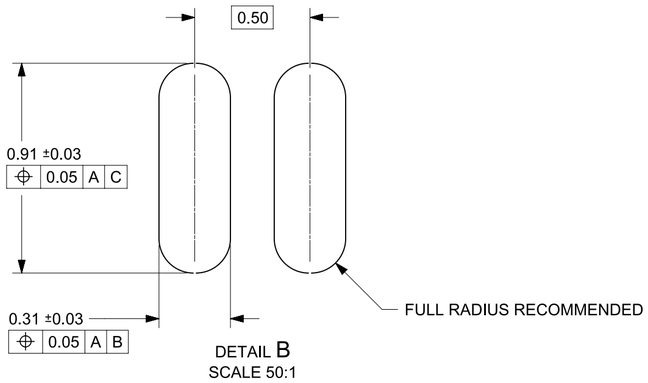
PRODUCT CUSTOMER DRAWING

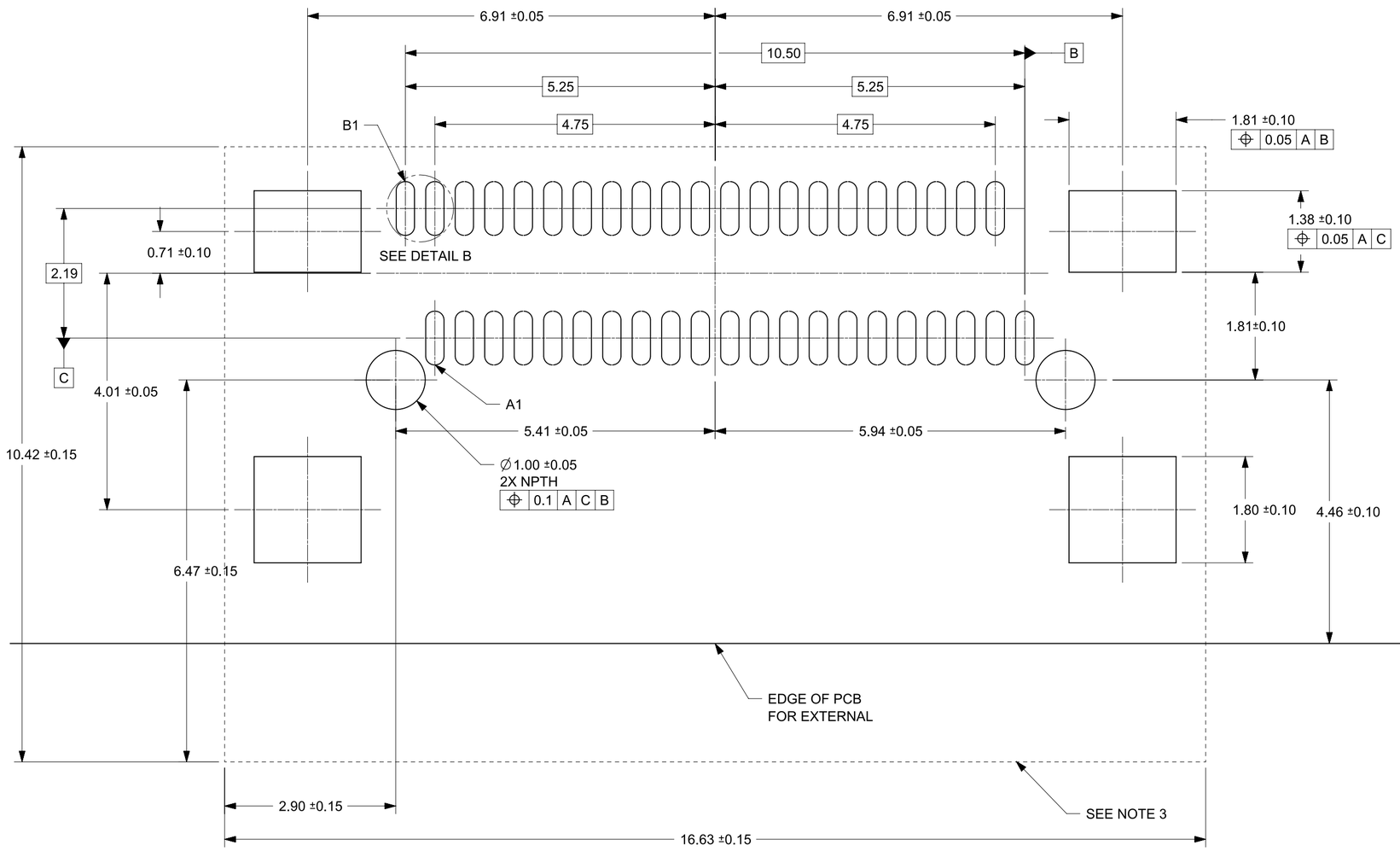
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171982-1000	PSD	001	J4

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	4 OF 6

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

42 CIRCUIT SMT RECOMMENDED FOOTPRINT





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

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DIMENSION UNITS	SCALE
MM	15:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBER AS PER PCN #516666

STATUS: Production

DRWN:	Pranav Arunkumar	2026-03-04
CHK'D:	Ganesh Rao B	2026-03-27
APPR:	Gurunandan GA	2026-03-27

molex

NANO-PITCH I/O
RIGHT ANGLE 4X

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171982-1000	PSD	001	J4

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	C-SIZE	171982	SEE TABLE	GENERAL MARKET	5 OF 6

FORMAT: TC-tb-prod-C
REVISION: B
DATE: 2022/08/01

REVISION	DATE	DISCRIPTION
J2	8/10/2021	UPDATE THE DATE CODE. SHEET 2/SHEET 3 From "MX YYDD" update to "MX YYDDD"
J3	3/25/2022	SHEET 1:CORRECT THE PS No. FROM PS-171982-0001 TO PS-173162-0001
J4	3/4/2026	OBSOLETED PART NUMBER 171982-2142

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DIMENSION UNITS	SCALE
MM	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: REMOVED OBSOLETED PART NUMBER AS PER PCN #516666

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molex

NANO-PITCH I/O
RIGHT ANGLE 4X

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171982-1000	PSD	001	J4

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	C-SIZE	171982	SEE TABLE	GENERAL MARKET	6 OF 6

FORMAT TC-tb-prod-C
REVISION: B
DATE: 2022/08/01