

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
A		INITIAL RELEASE	29JAN2016	JY	SH
B		REVISED PER ECO-16-015248	24OCT2016	JY	SH
C1		REVISED PER ECO-20-002129	14FEB2020	VM	SH
D1		REVISED PER ECN-21-104118	17MAY2021	SH	SZ

1. MATERIAL:
CAGE MATERIAL : 0.25 THICK NICKEL SILVER.
SPRING MATERIAL: COPPER ALLOY
PURE COPPER FOIL: CONDUCTIVE, ADHESIVE

2. FINISH:
SPRING: NICKEL PLATING

3. MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.

REFERENCE APPLICATION SPEC 114-32023 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.

DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMERS.

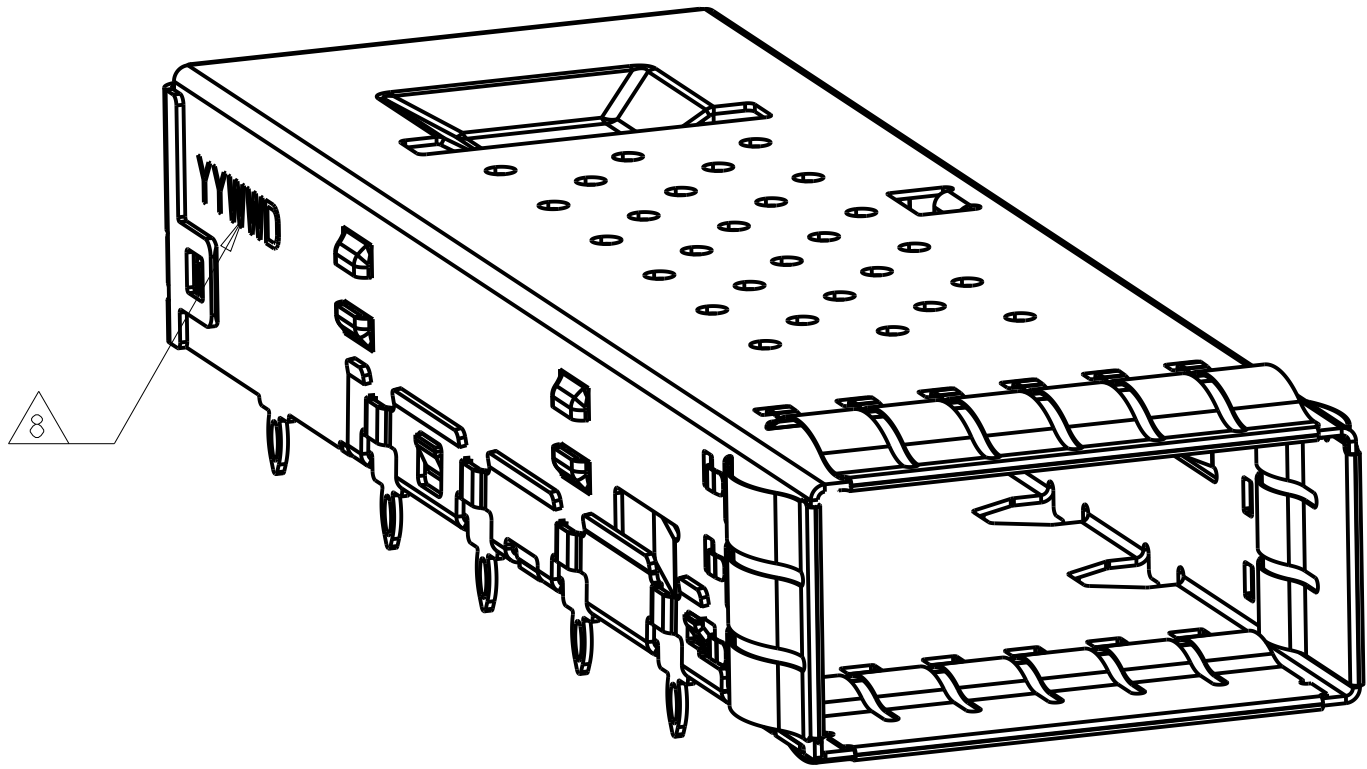
6. MINIMUM PC BOARD THICKNESS: SINGLES SIDED: 1.57 MIN
DOUBLE SIDED: 2.20 MIN

DATUM -A- IS TOP SURFACE OF THE HOST BOARD.

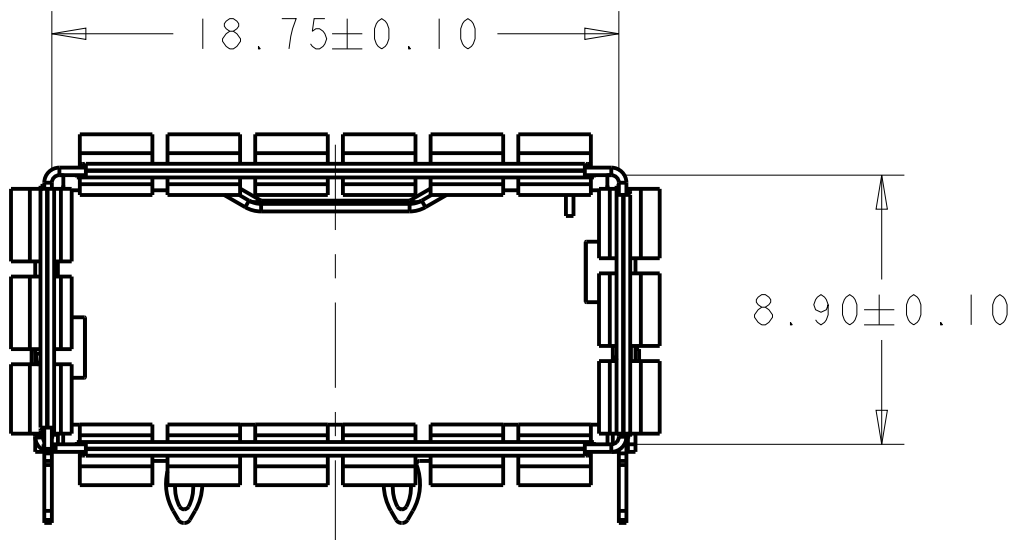
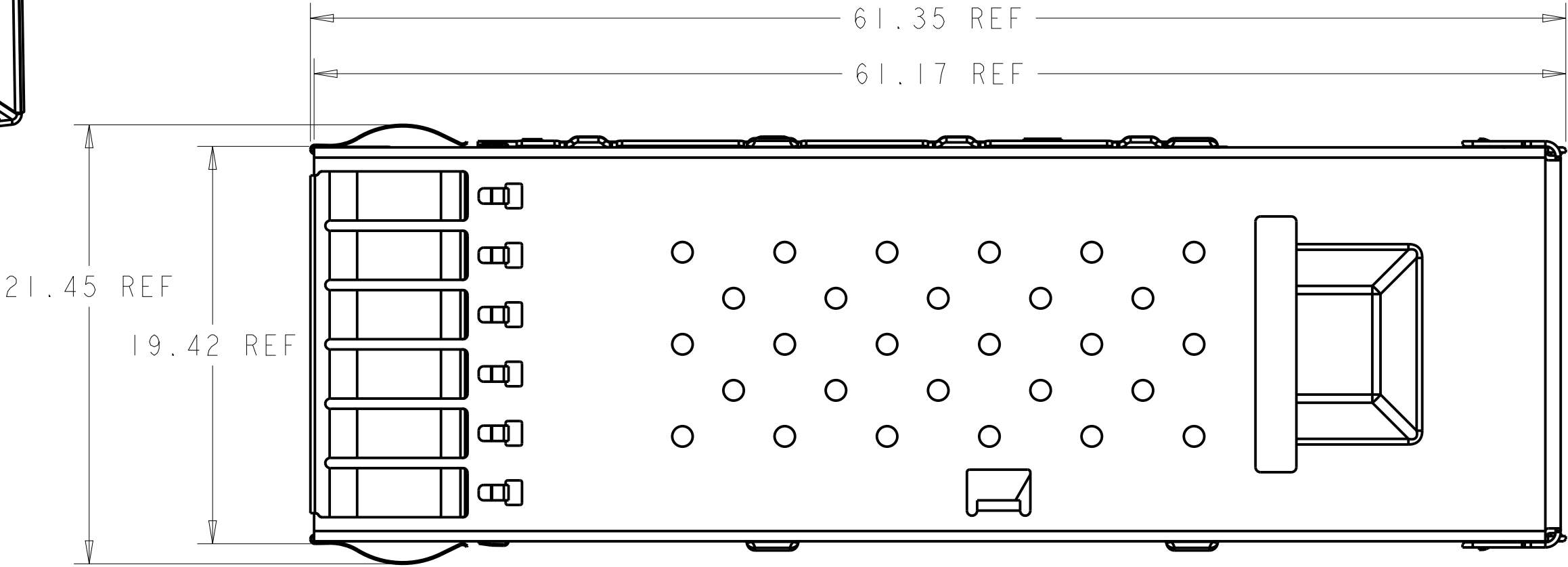
DATE CODE (YYWWD) MARKED APPROXIMATELY AS SHOWN

CUSTOMIZED SCHLEGEL GAP PAD.OP-8800.

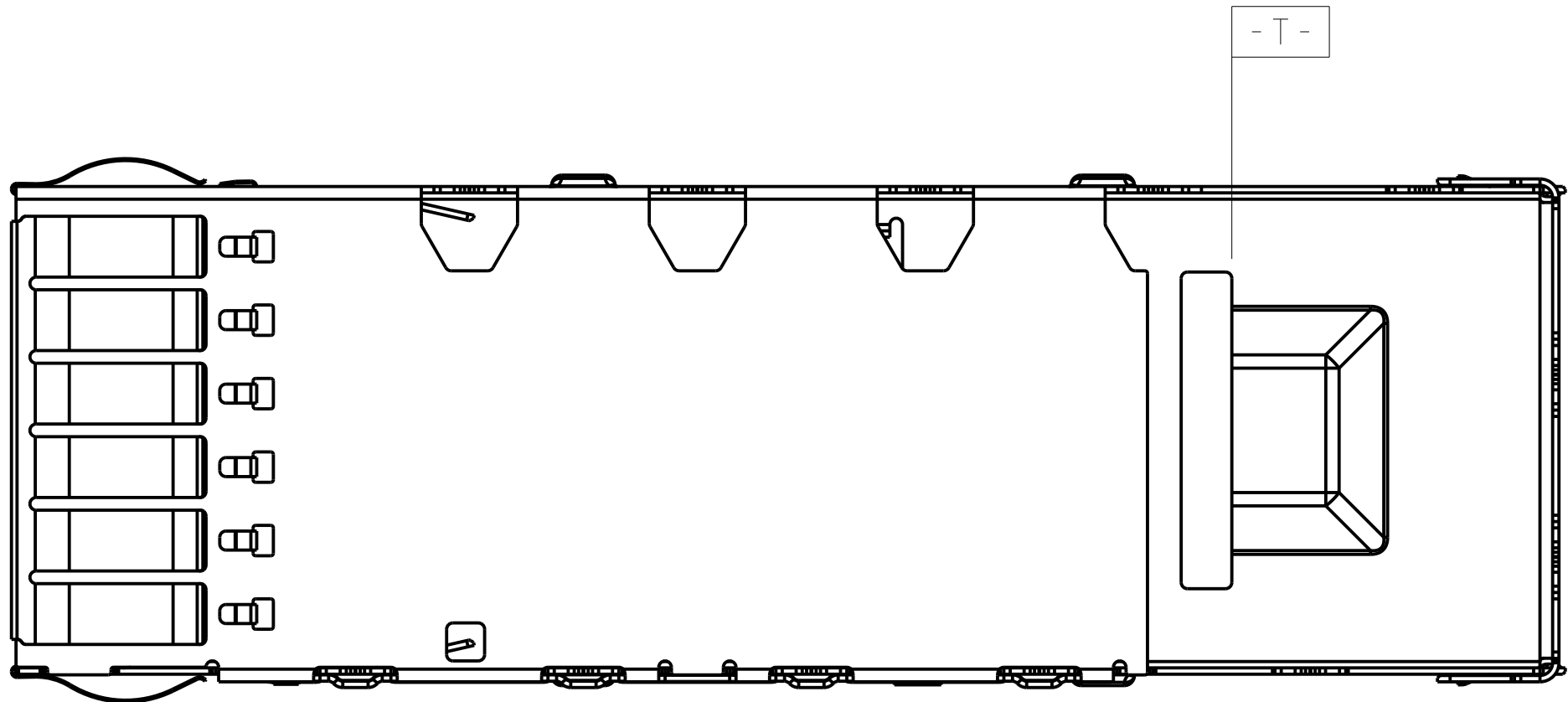
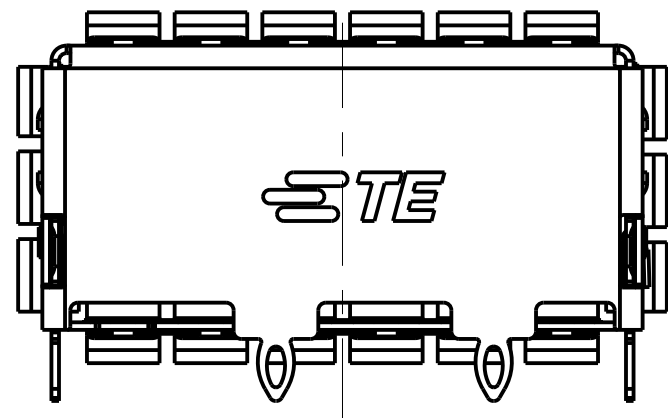
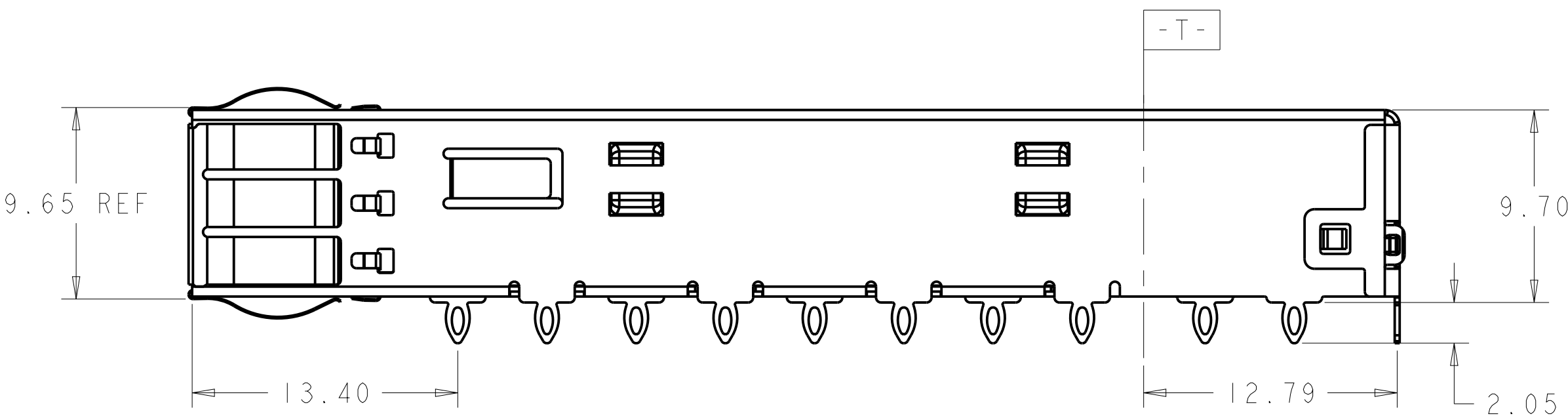
CUSTOMIZED PACKING TRAY.



SCALE 4:1



SCALE 4:1



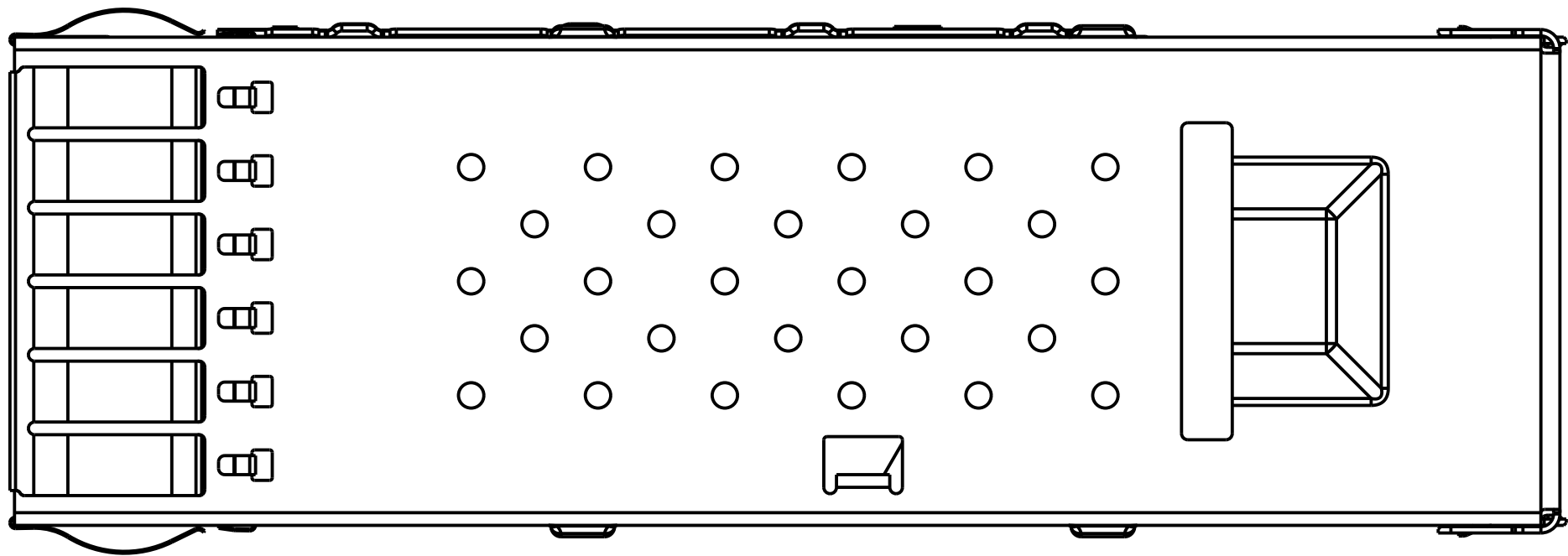
WITHOUT	WITHOUT	WITH	WITH	1	WITHOUT	6-2170703-4
WITH	WITHOUT	WITH	WITHOUT	1	WITHOUT	1-2170703-4
WITHOUT	WITH	WITH	WITHOUT	1	WITH LARGER	4-2170703-6
WITHOUT	WITHOUT	WITH	WITH	0	WITH LARGER	2-2170703-9
WITHOUT	WITHOUT	WITH	WITH	1	WITH LARGER	2-2170703-8
WITHOUT	WITHOUT	WITH	WITHOUT	2	WITH LARGER	1-2170703-0
WITHOUT	WITHOUT	WITH	WITH	1	WITHOUT	5-2170703-4
WITHOUT	WITHOUT	WITH	WITH	2	WITH STANDARD	5-2170703-2
WITHOUT	WITHOUT	WITHOUT	WITHOUT	0	WITH STANDARD	2-2170703-7
WITHOUT	WITHOUT	WITH	WITHOUT	1	WITH LARGER	2-2170703-6
WITHOUT	WITHOUT	WITH	WITHOUT	0	WITH STANDARD	2170703-7
WITHOUT	WITHOUT	WITH	WITHOUT	1	WITH STANDARD	2170703-6
WITHOUT	WITHOUT	WITH	WITHOUT	0	WITHOUT	2170703-5
WITHOUT	WITHOUT	WITH	WITHOUT	1	WITHOUT	2170703-4
WITHOUT	WITHOUT	WITH	WITHOUT	2	WITH STANDARD	2170703-2
WITHOUT	WITHOUT	WITH	WITHOUT	2	WITHOUT	2170703-1
COPPER FOIL	THERMAL PAD	SPRING FINGER	INSULATING TAPE OPTION	# REAR PINS	HEAT SINK OPEN	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONS: mm TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 0.25 1 PLC ± 0.25 2 PLC ± 0.25 3 PLC ± 0.25 4 PLC ± 0.100 ANGLES FINISH		DWN: JASON YANG 23SEP2013 CHN: SEAN HAN 29JAN2016 APVD: -	NAME: CAGE ASSEMBLY, QSFP28 1X1,THRU BEZEL WITH EMI SPRING FINGER
MATERIAL: -	-	PRODUCT SPEC: 108-19428 APPLICATION SPEC: 114-32023 WEIGHT: -	SIZE: A1 CAGE CODE: 00779 DRAWING NO: 2170703
RESTRICTED CUSTOMER		SCALE: 2:1	SHEET 1 OF 7 REV D1

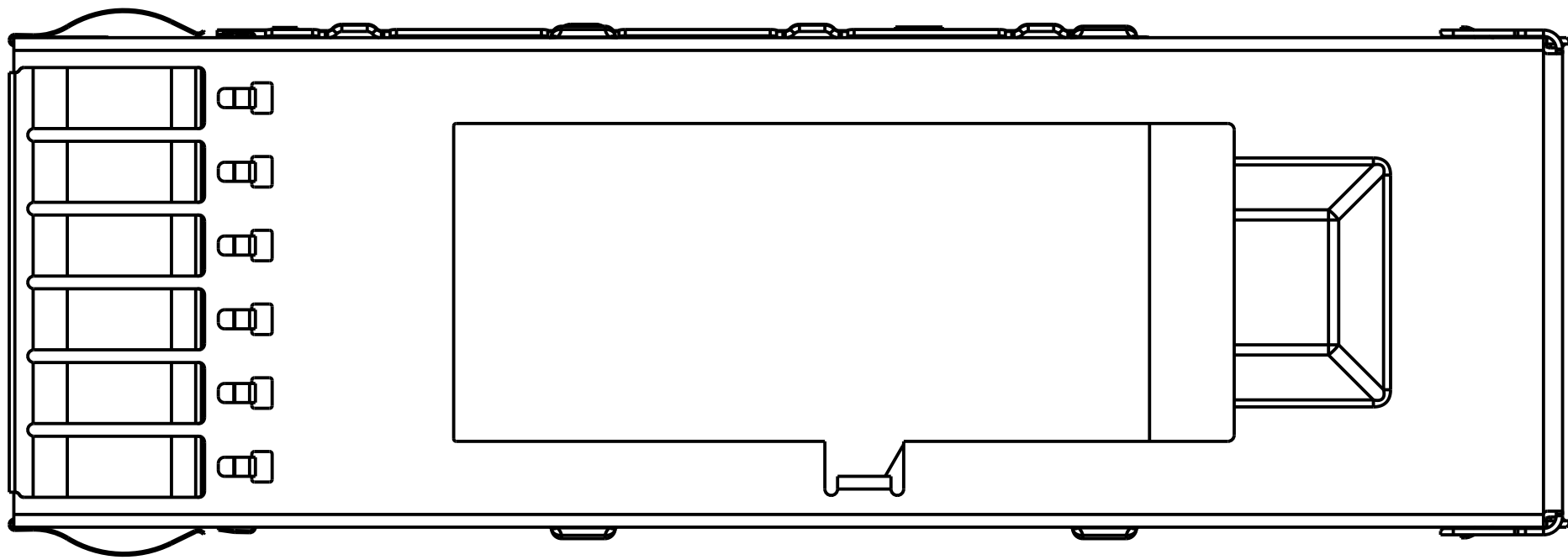
2170703-1 AS SHOWN

REVISIONS					
P.	LTR.	DESCRIPTION	DATE	DWN.	APVD.
-	-	SEE SHEET 1	-	-	-

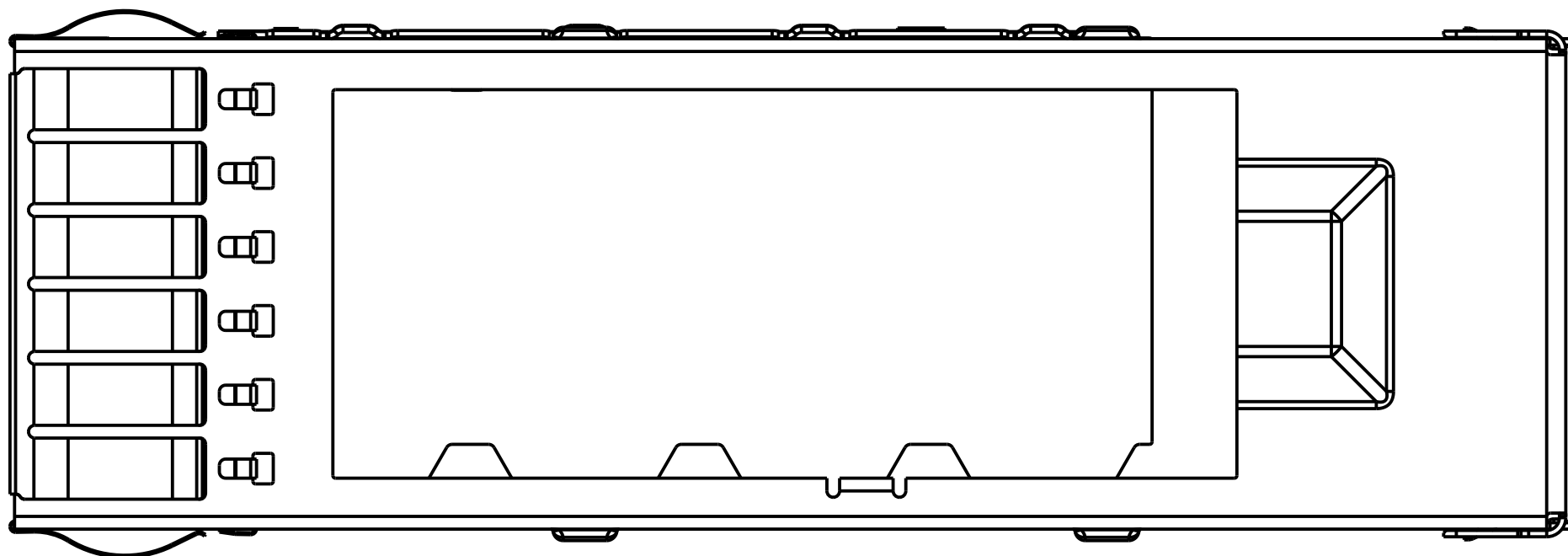
HEAT SINK OPEN OPTIONS



WITHOUT HEAT SINK OPEN
SCALE 4:1

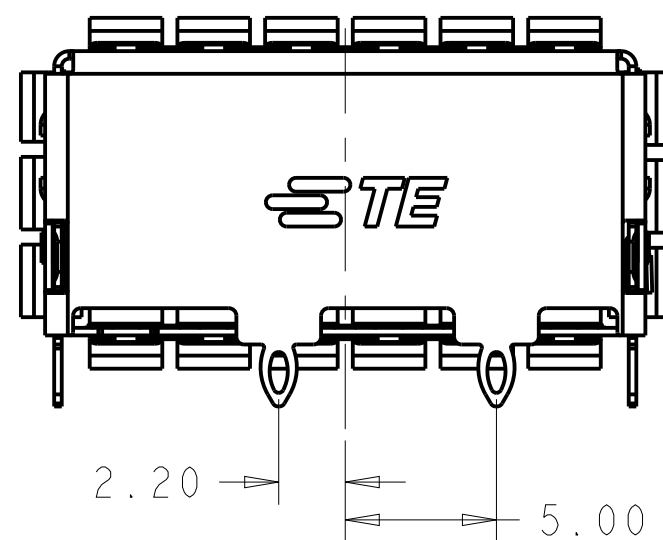


WITH STANDARD HEAT SINK OPEN (30.7X12.5)
SCALE 4:1

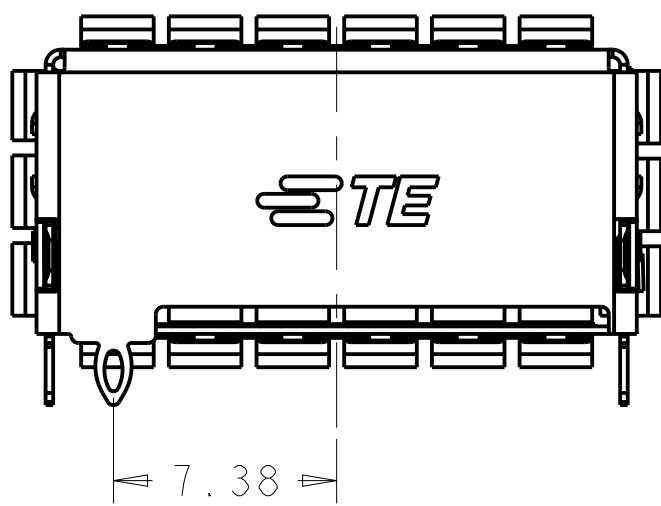


WITH LARGER HEAT SINK OPEN (35.5X15.25)
SCALE 4:1

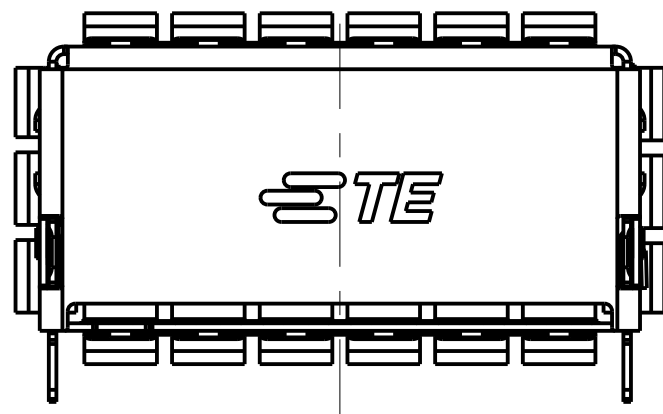
OF REAR LEGS OPTIONS



2 REAR LEGS VERSION
SCALE 4:1

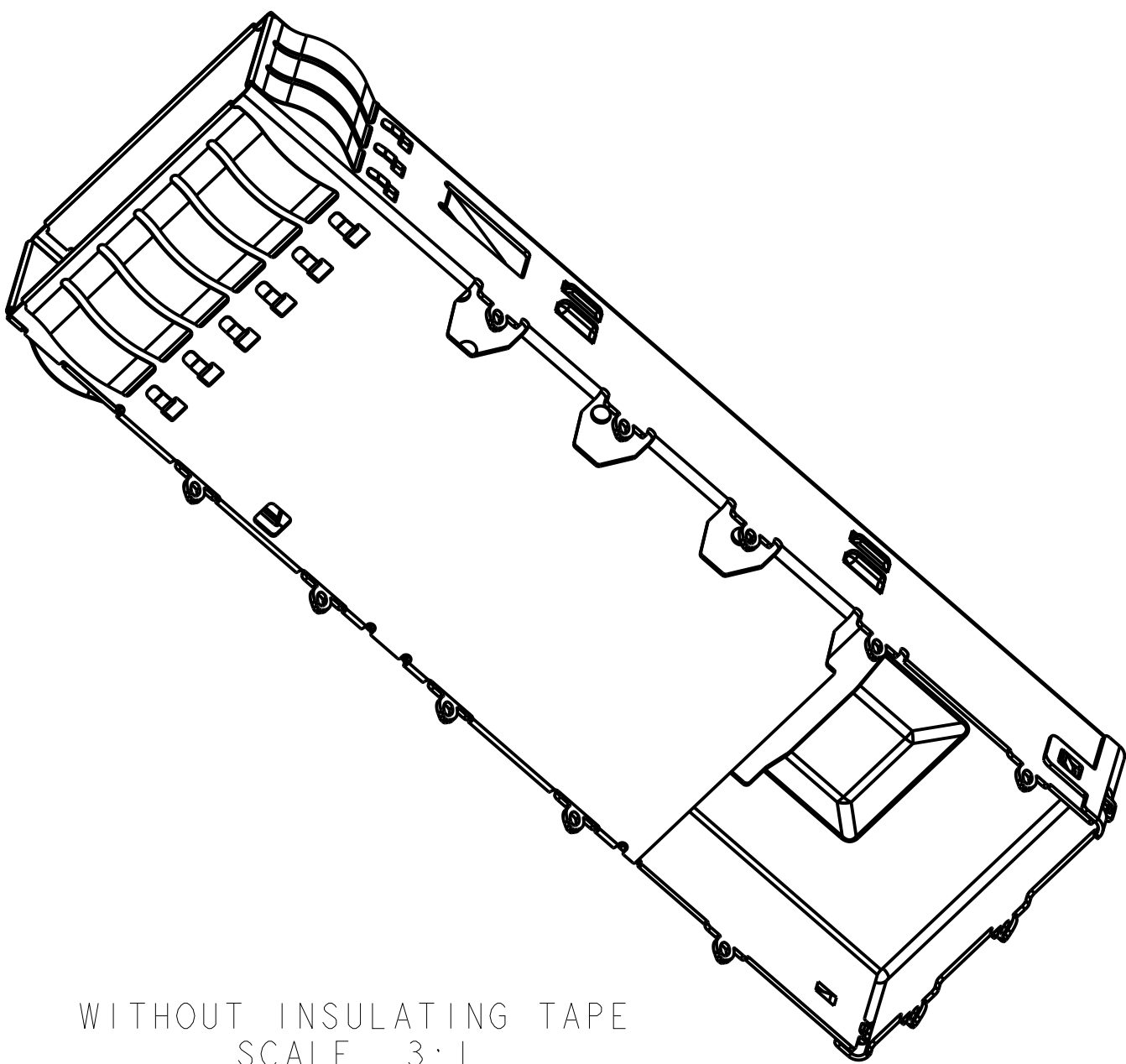


1 REAR LEG VERSION
SCALE 4:1

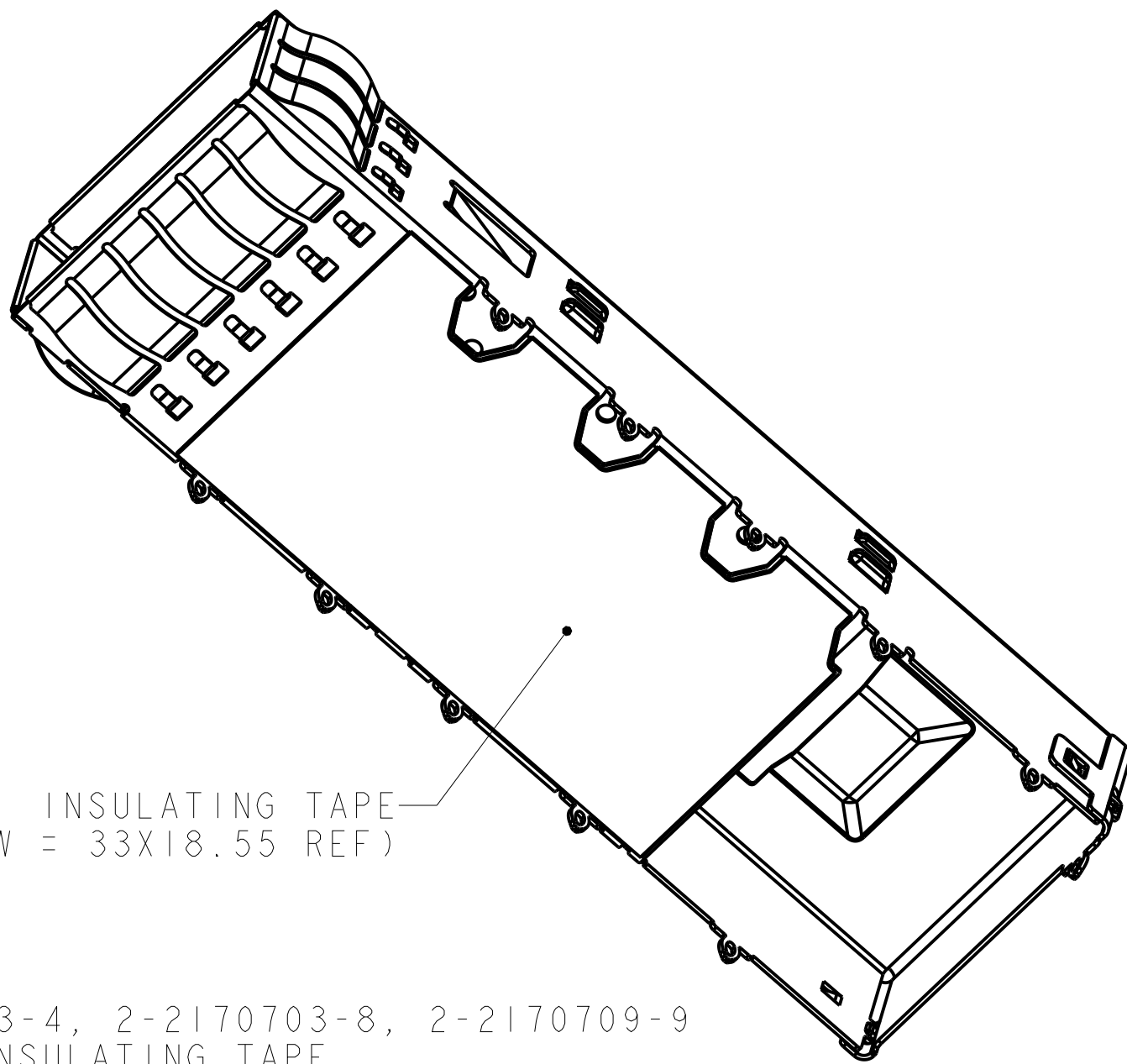


0 REAR LEG VERSION
SCALE 4:1

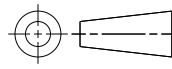
INSULATING TAPE OPTIONS



WITHOUT INSULATING TAPE
SCALE 3:1



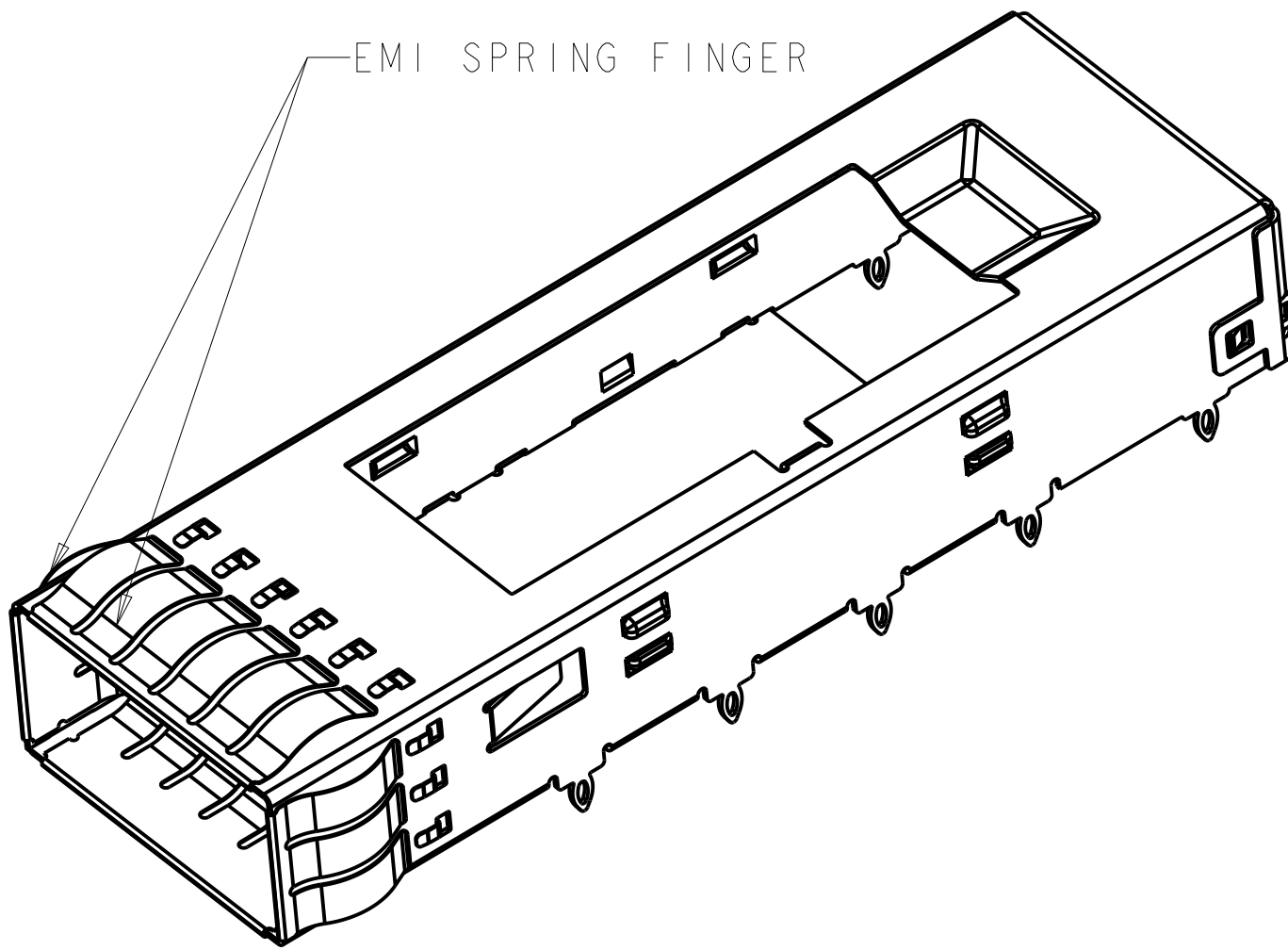
5-2170703-2, 5-2170703-4, 2-2170703-8, 2-2170709-9
WITH INSULATING TAPE
SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: JASON YANG 23SEP2013	 TE Connectivity	
		CHK: SEAN HAN 29JAN2016		
DIMENSIONS:		APVD: -	NAME	
mm			CAGE ASSEMBLY, OSFP28 1X1, THRU BEZEL WITH EMI SPRING FINGER	
		0 PLC ± 0.25	PRODUCT SPEC	
		1 PLC ± 0.25	108-19428	
		2 PLC ± 0.20	APPLICATION SPEC	
		3 PLC ± 0.100	114-32023	
MATERIAL		FINISH	WEIGHT	RESTRICTED TO
-		-	-	A 100779 C= 2170703
-		-	RESTRICTED CUSTOMER	SCALE 2:1 SHEET 2 OF 7 REV D1

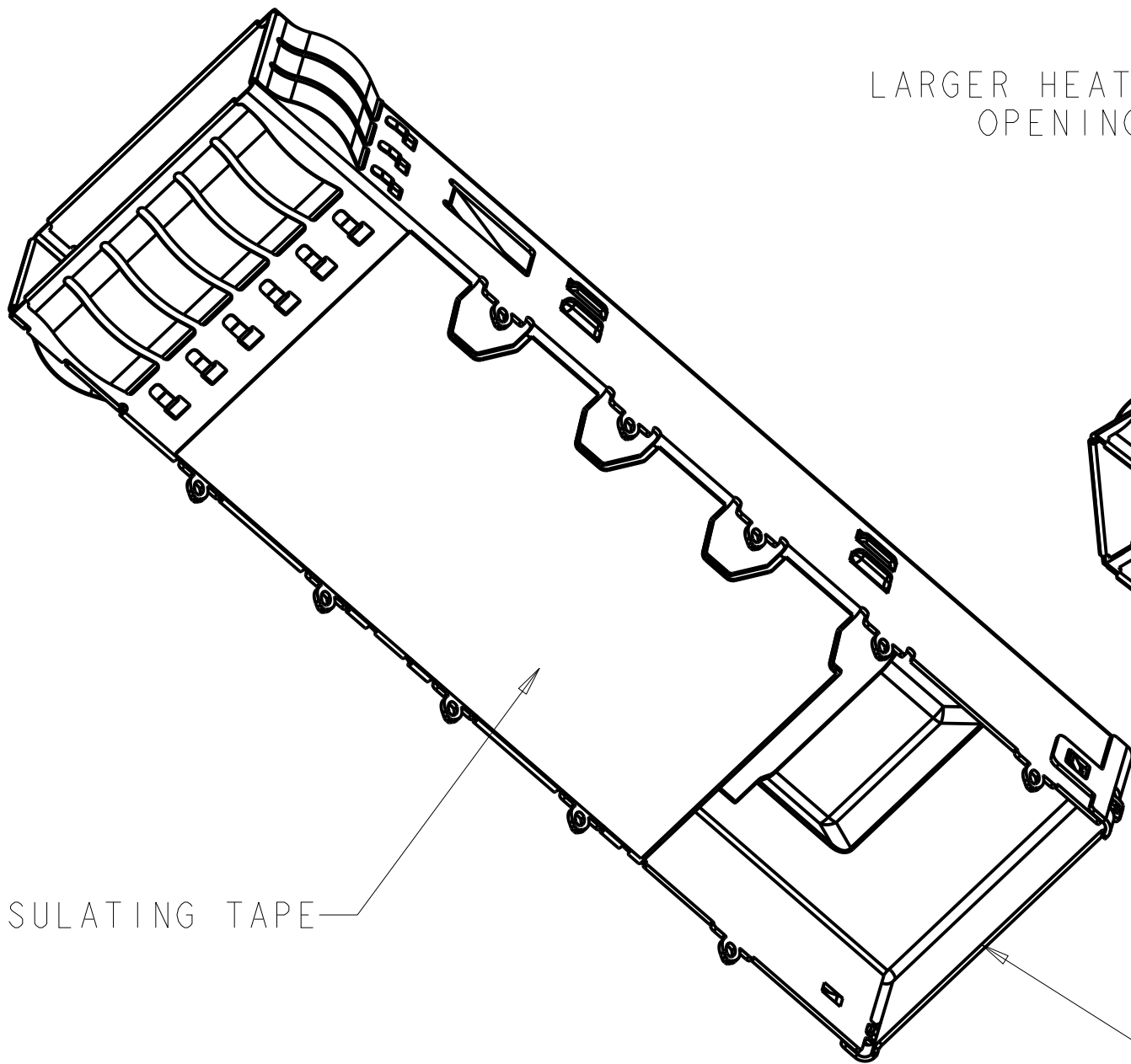
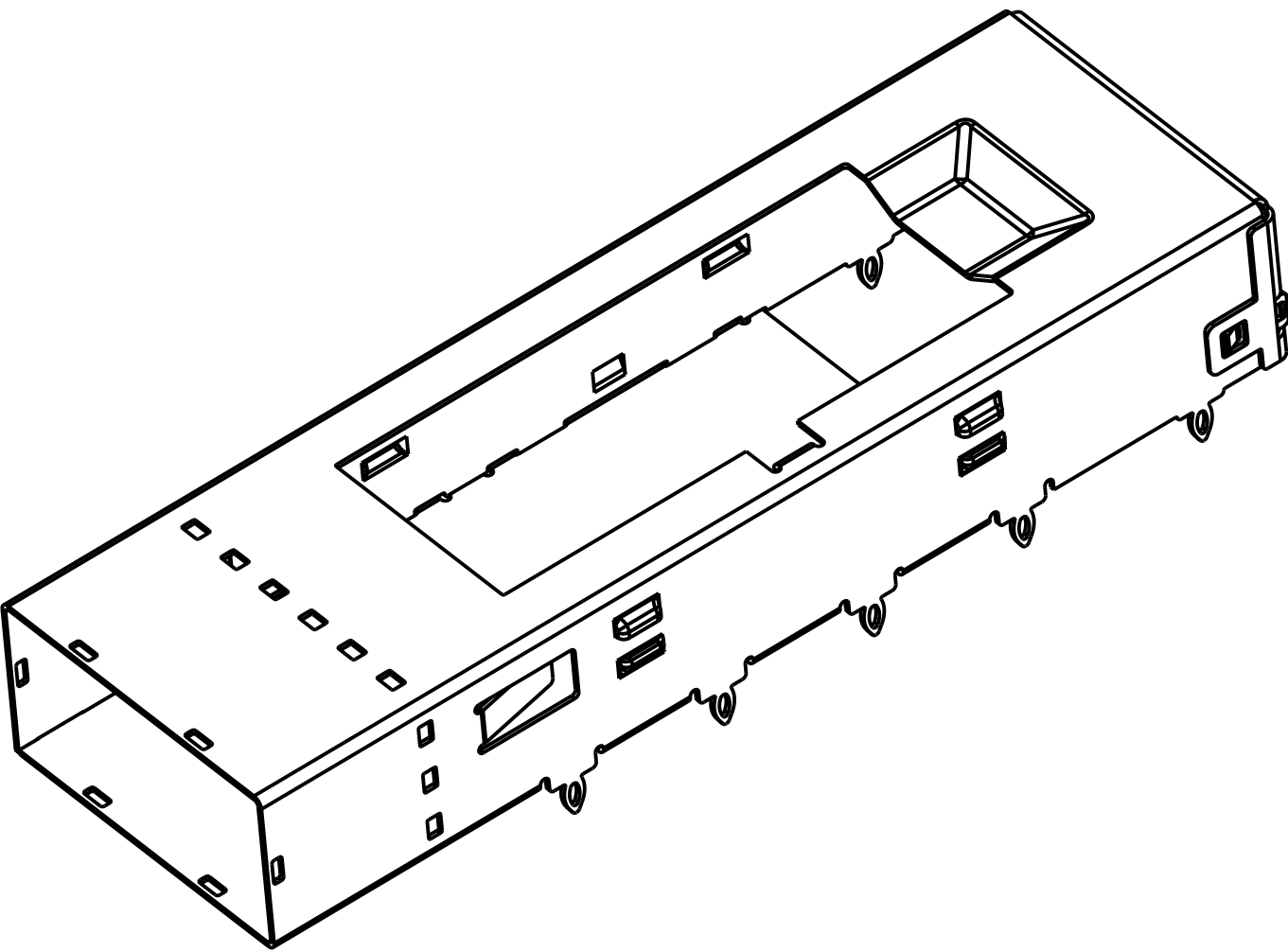
REVISIONS					
P.	LTR.	DESCRIPTION	DATE	DWN.	APVD.
-	-	SEE SHEET 1	-	-	-

SPRING FINGER OPTIONS

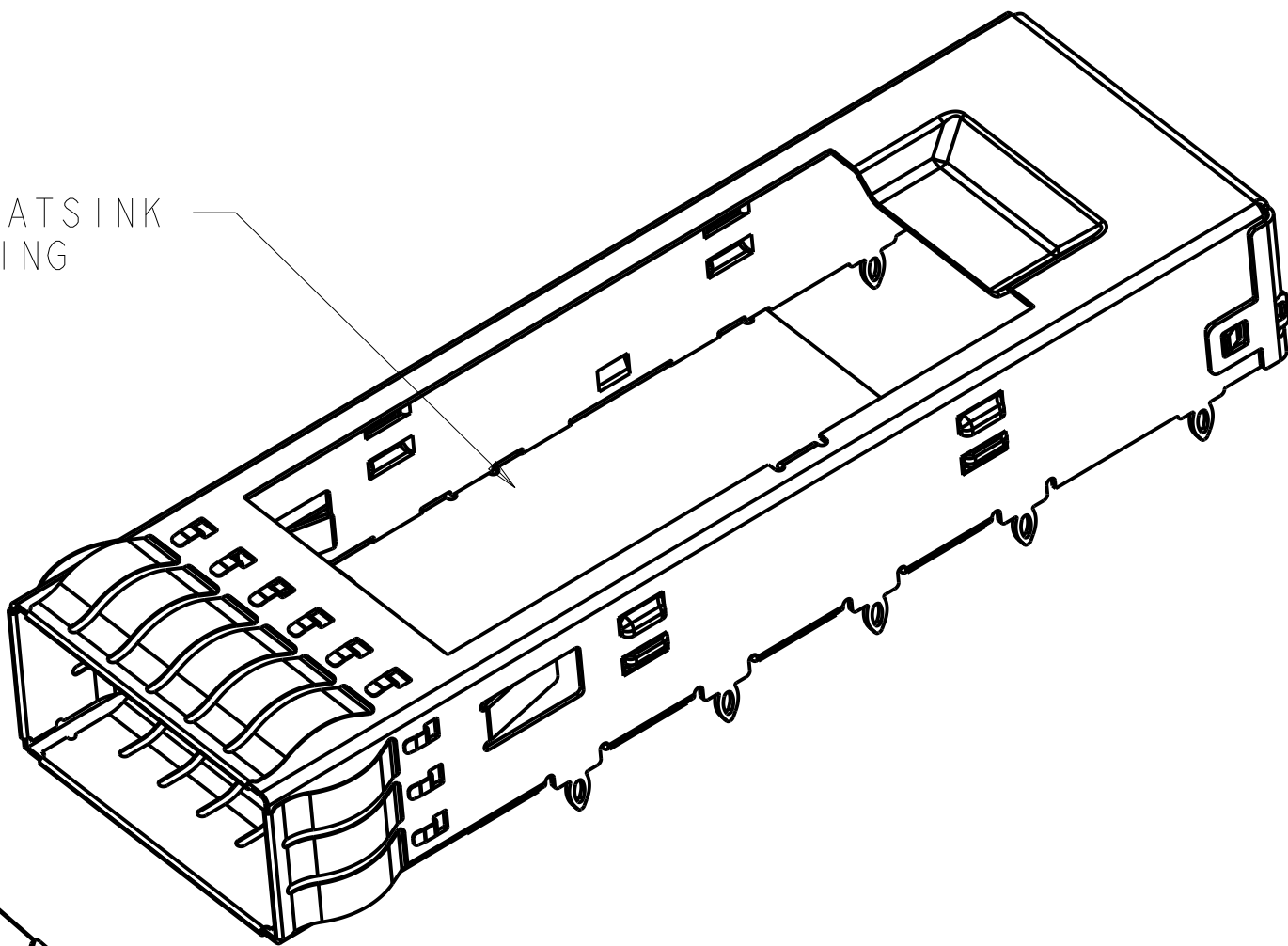
2-2170703-9



WITH EMI SPRING FINGER
SCALE 3:1



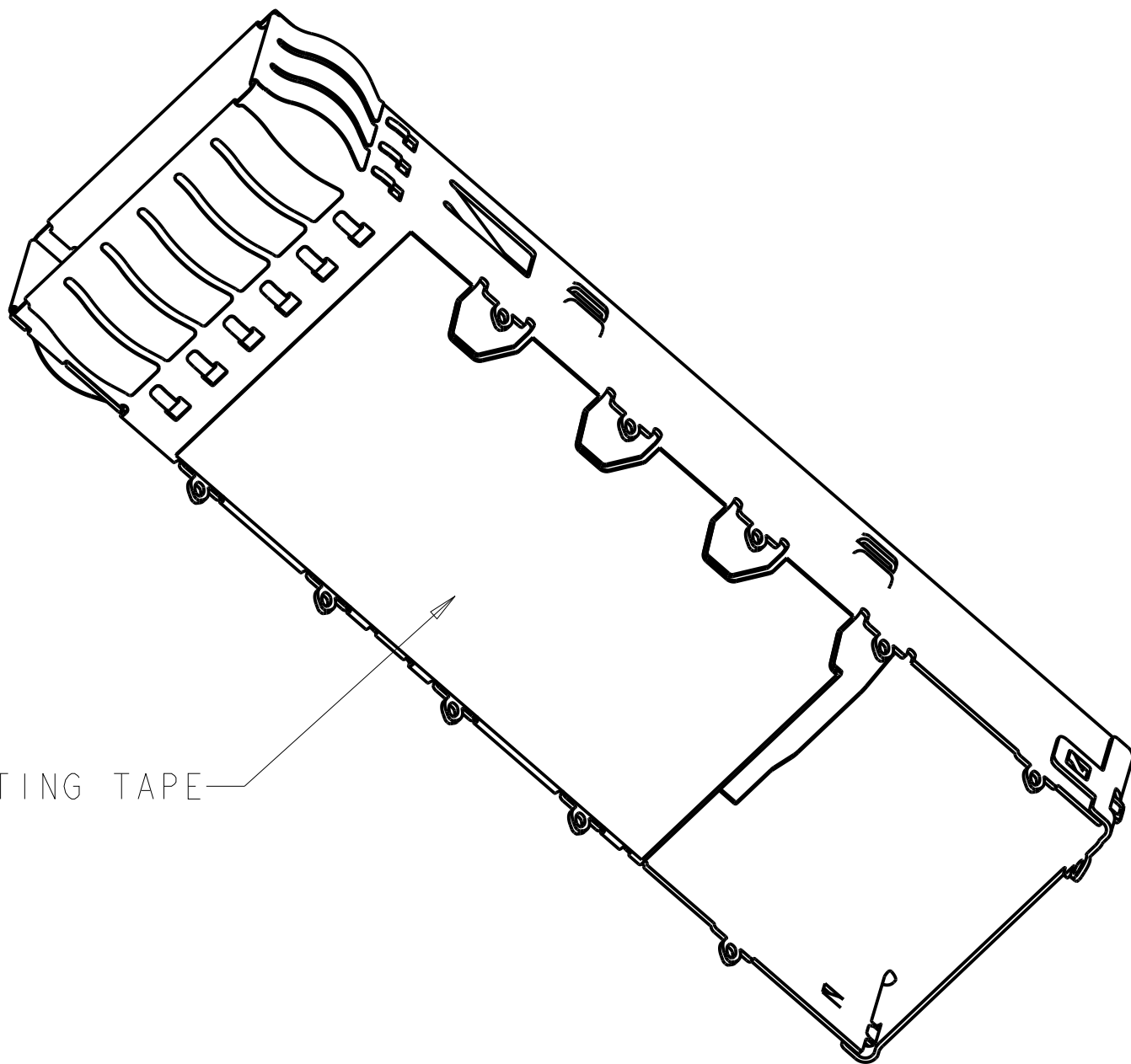
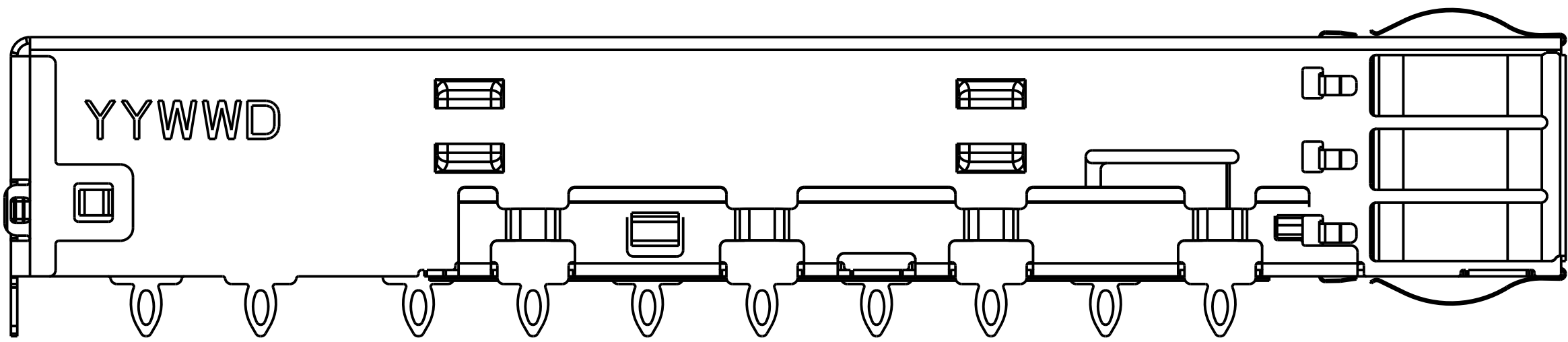
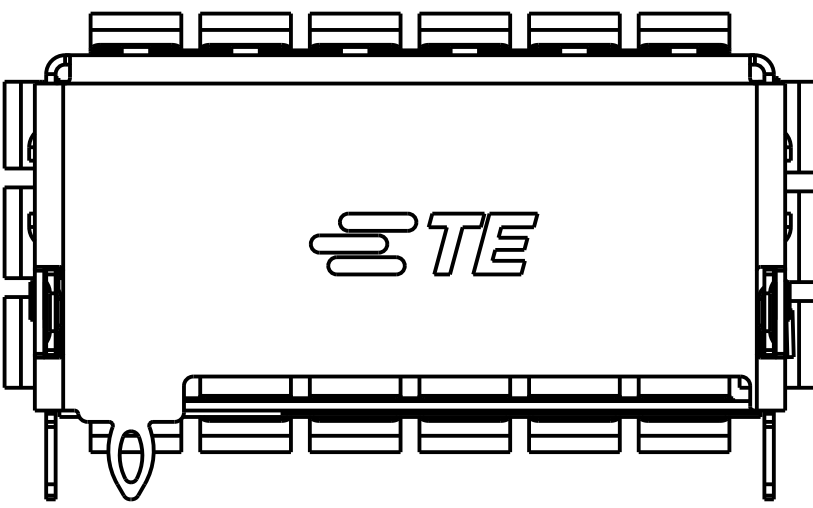
SCALE 3:1



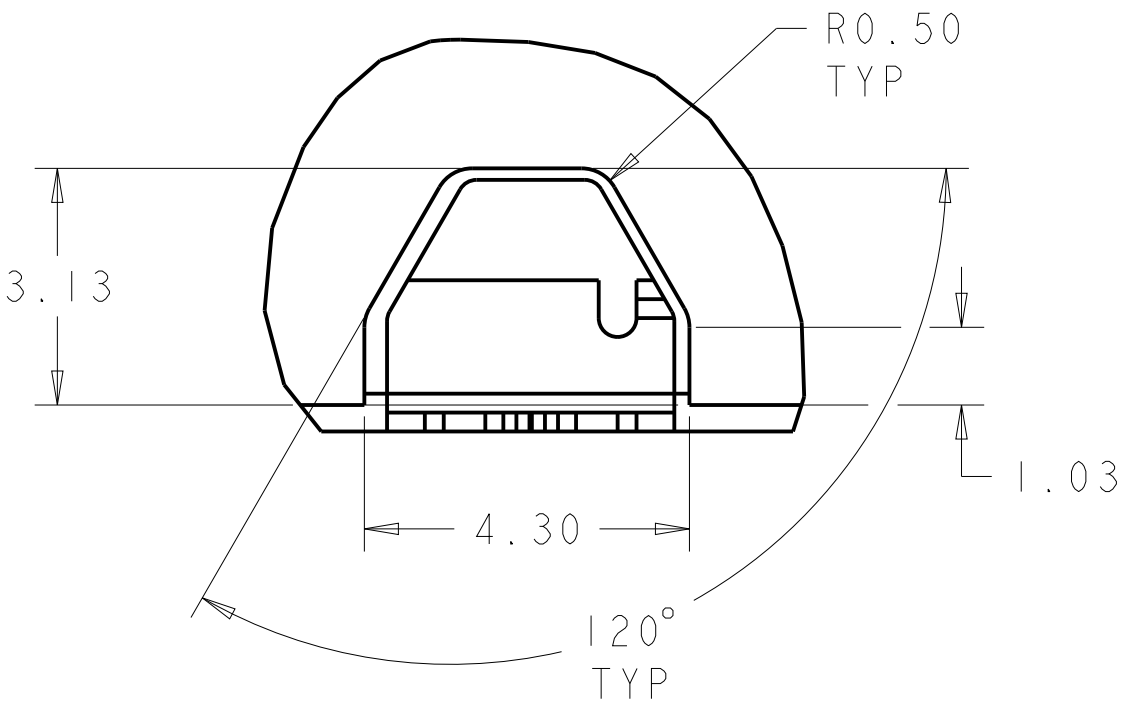
SCALE 3:1

WITHOUT REAR EONS

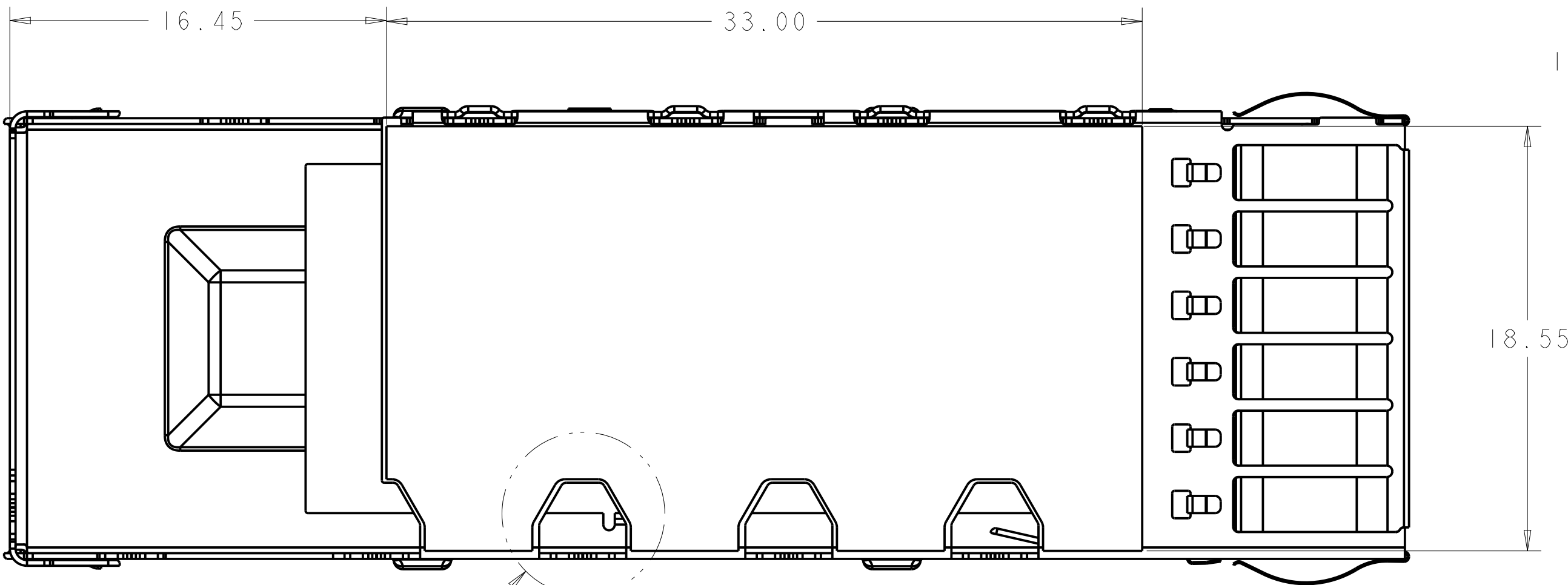
2-2170703-8



SCALE 3:1



DETAIL A
SCALE 10:1

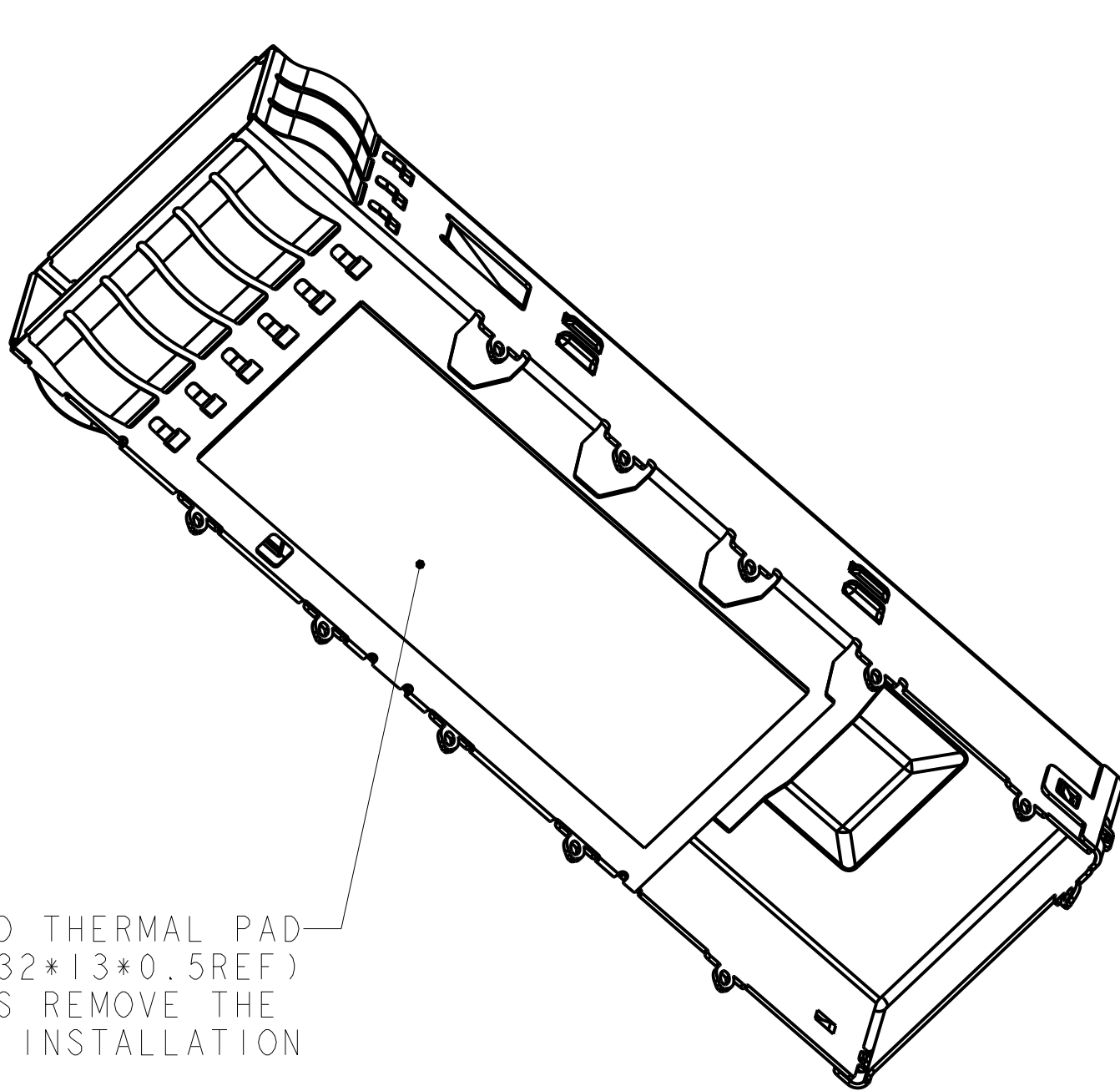


SEE DETAIL A

NOTE: 2-2170703-8 DIMENSIONS MARKED ARE FOR INSULATING TAPE

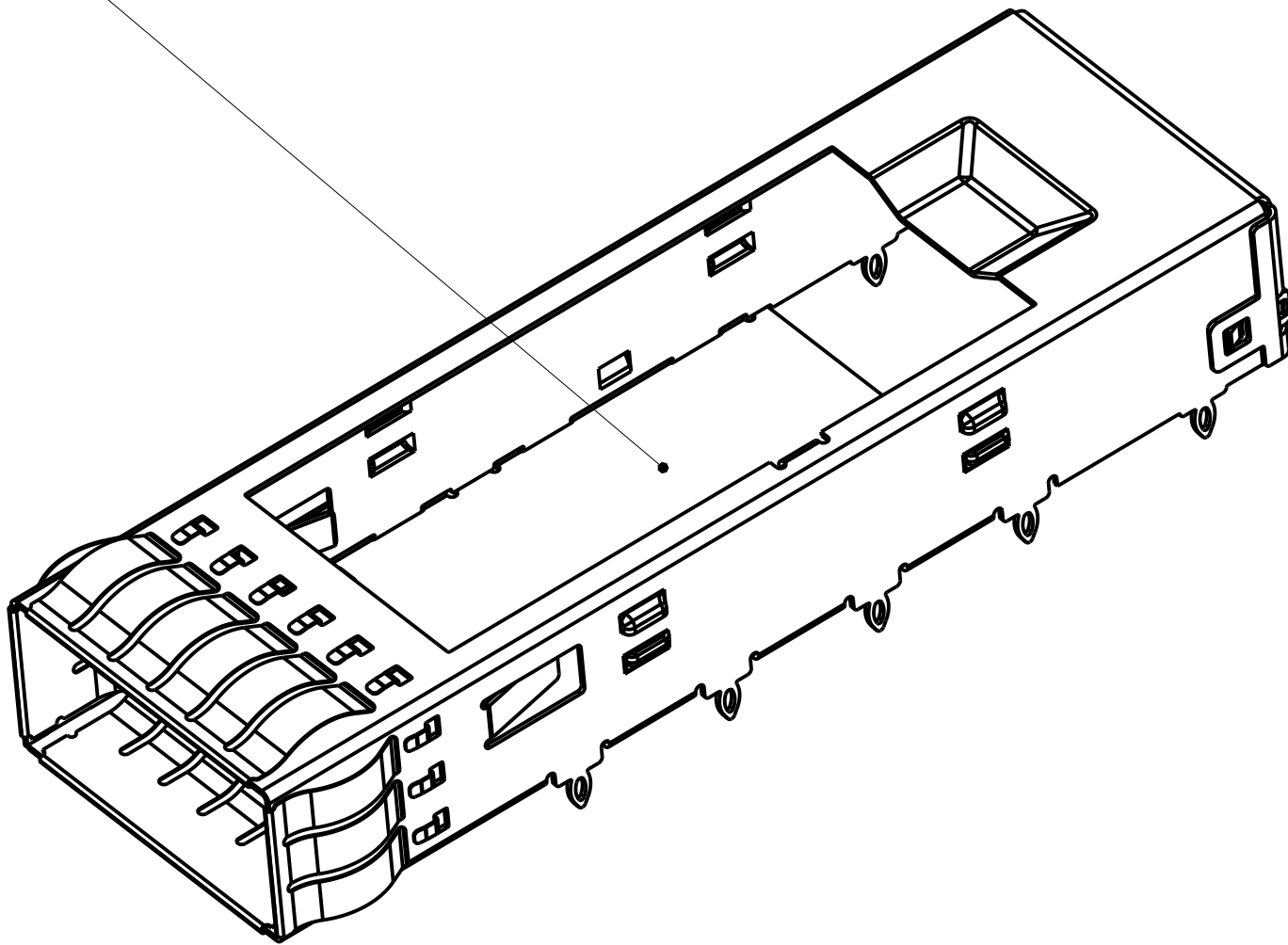
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN. JASON YANG 23SEP2013	TE Connectivity
TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK. SEAN HAN 29JAN2016	
DIMENSIONS:		APVD. -	
mm	0 PLC ± 0.25 1 PLC ± 0.25 2 PLC ± 0.20 3 PLC ± 0.100 4 PLC ± 0.100	PRODUCT SPEC 108-19428 APPLICATION SPEC 114-32023	NAME CAGE ASSEMBLY, OSFP28 1X1, THRU BEZEL WITH EMI SPRING FINGER
MATERIAL -	FINISH -	WEIGHT -	
RESTRICTED CUSTOMER		SCALE 2:1	SHEET 3 OF 7

REVISIONS					
P.	LTR.	DESCRIPTION	DATE	DWN.	APVD.
-	-	SEE SHEET 1	-	-	-



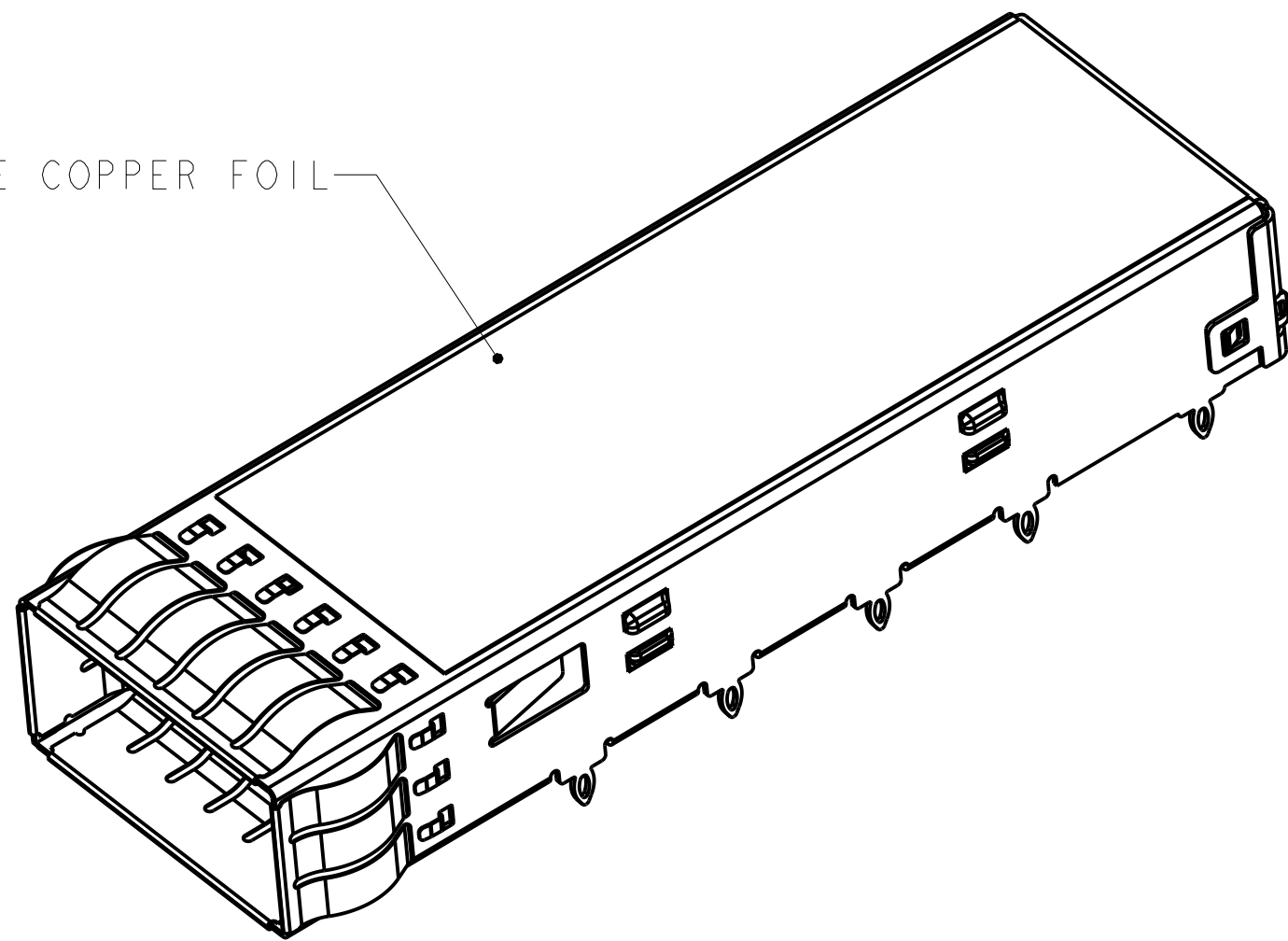
CUSTOMIZED THERMAL PAD
(LXWXH=32*13*0.5REF)
NOTES: PLS REMOVE THE
TRANSPARENT FILM BEFORE INSTALLATION

SCALE 3:1

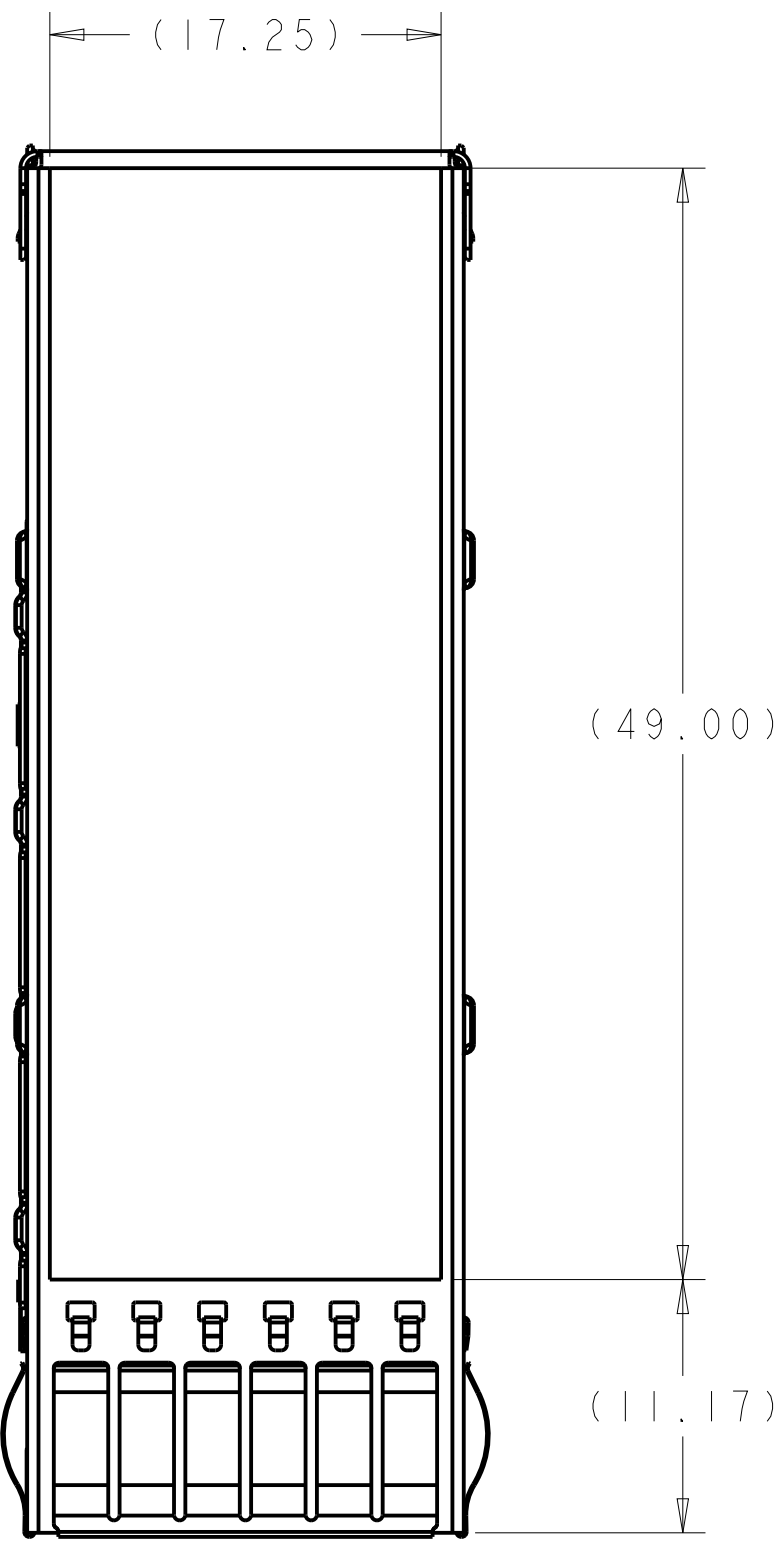


4-2170703-6 AS SHOWN
SAME AS 2-2170703-6 EXCEPT WITH THERMAL PAD
SCALE 3:1

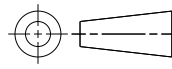
PURE COPPER FOIL OPTIONS



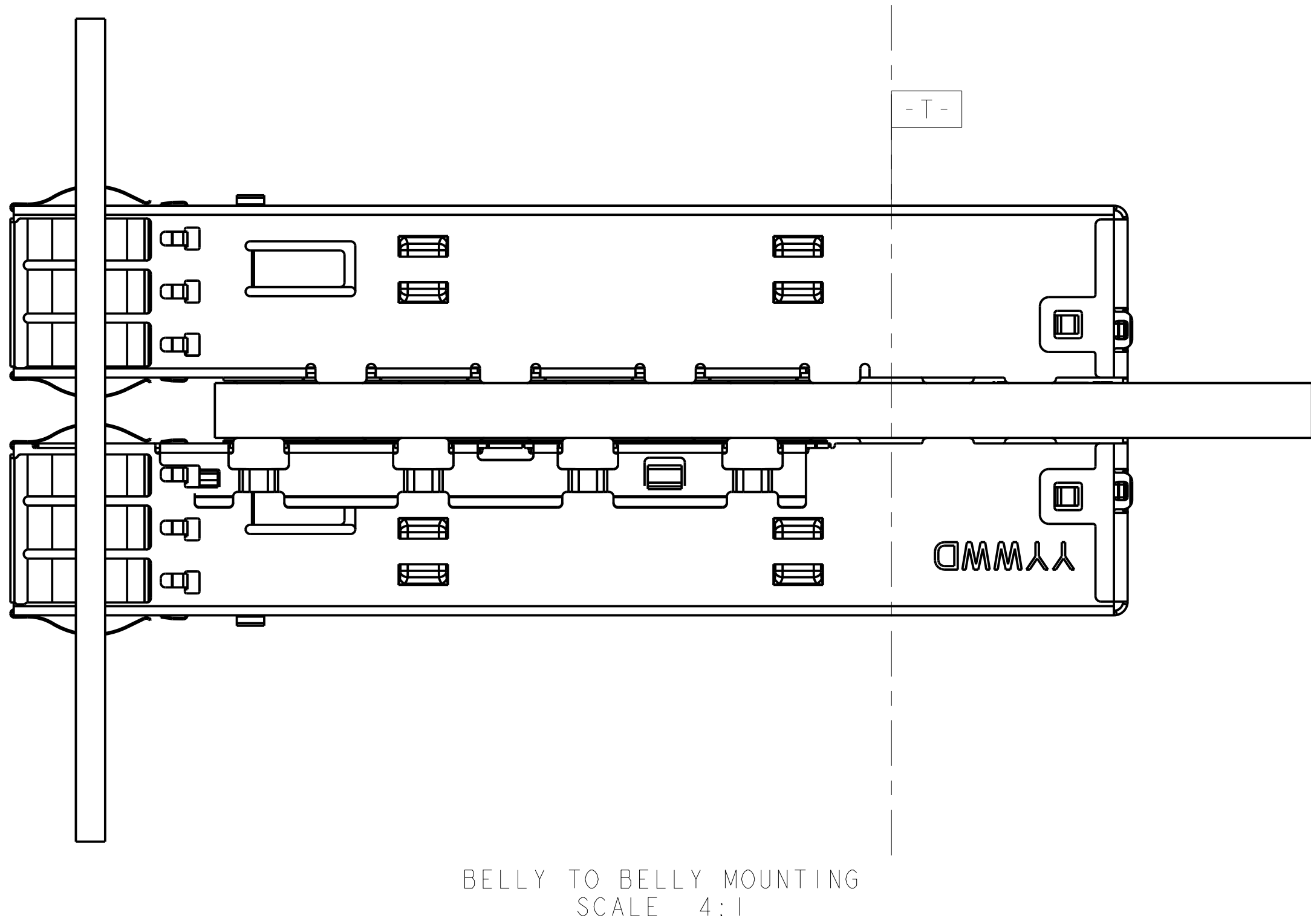
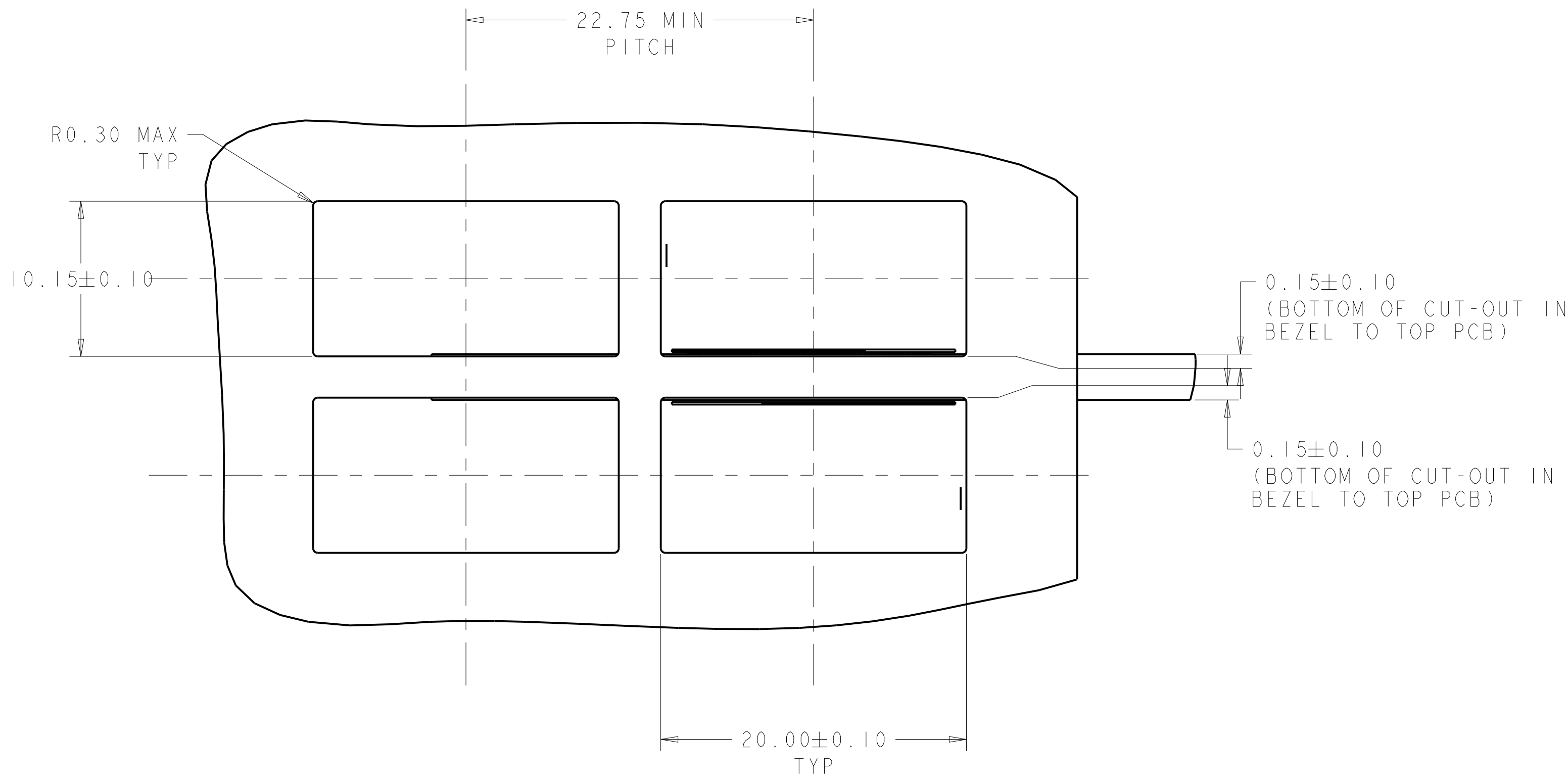
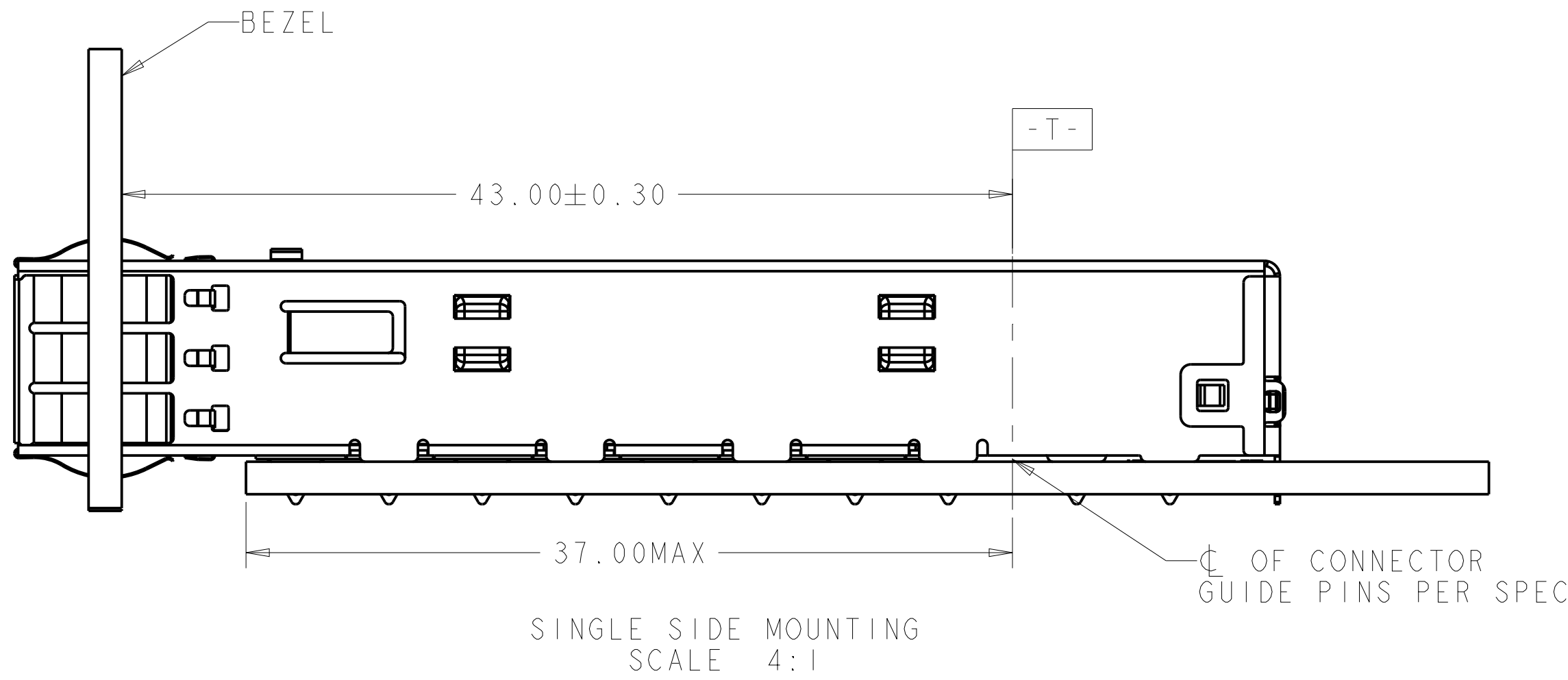
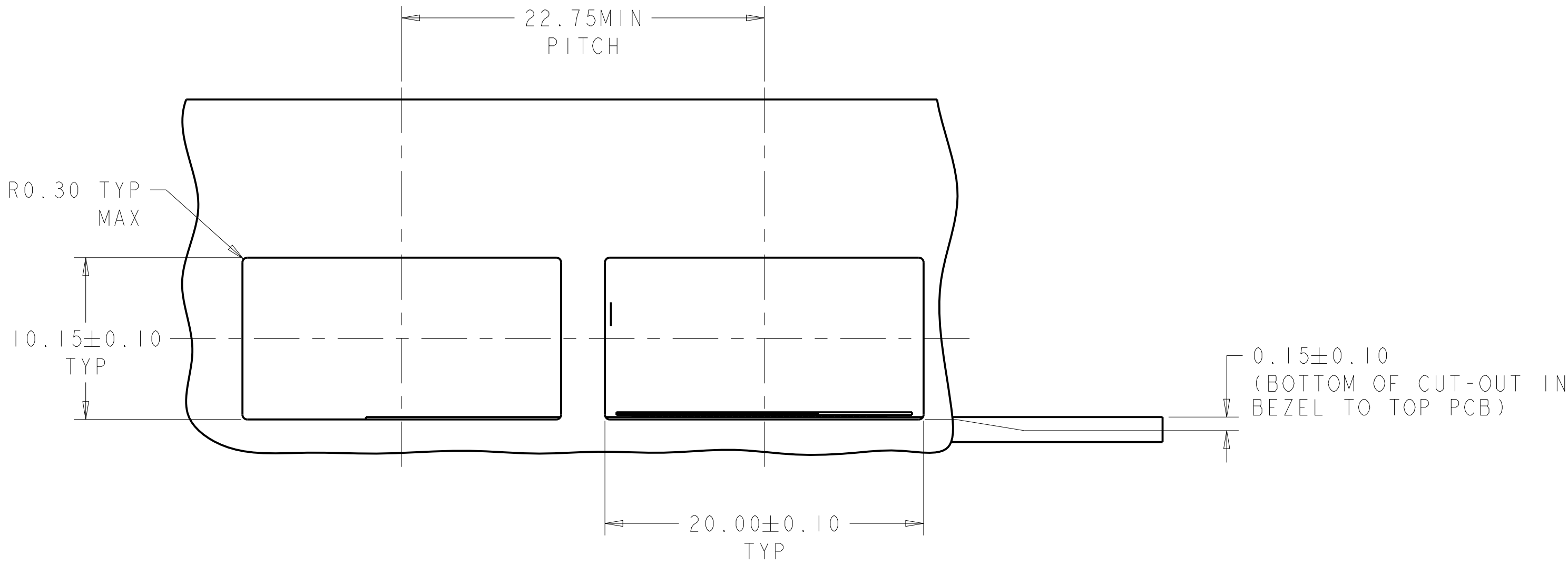
1-2170703-4
SCALE 3:1



SCALE 3:1

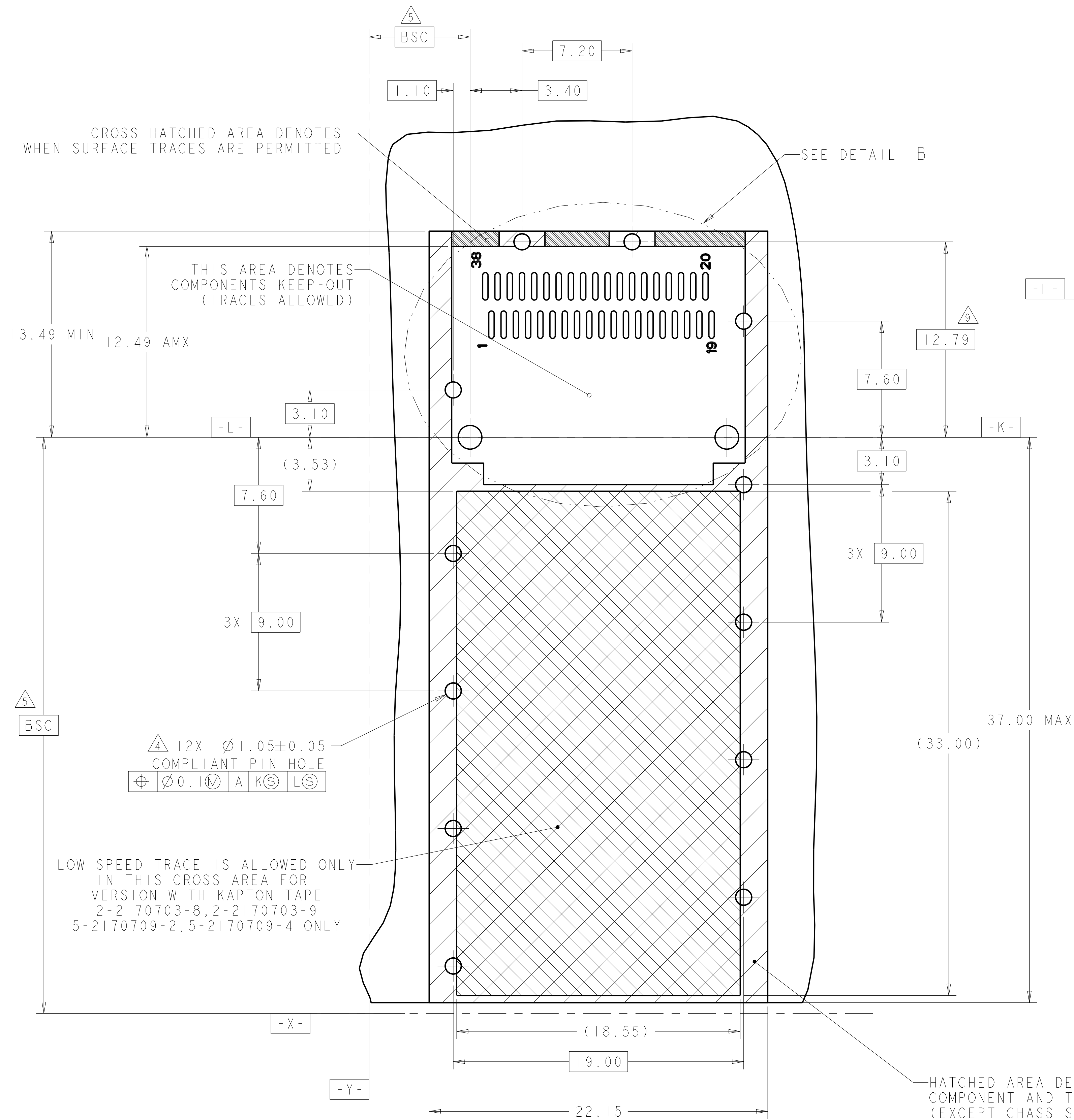
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN. JASON YANG 23SEP2013	 TE Connectivity	
		CHK. SEAN HAN 29JAN2016		
DIMENSIONS:		APVD. -	NAME	
mm		PRODUCT SPEC	CAGE ASSEMBLY, OSFP28 1X1, THRU	
		108-19428	BEZEL WITH EMI SPRING FINGER	
		APPLICATION SPEC	SIZE CAGE CODE DRAWING NO	
		114-32023	A100779C= 2170703	
		FINISH	RESTRICTED TO	
MATERIAL		RESTRICTED CUSTOMER	SCALE 2:1 SHEET 4 OF 7 REV D1	

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

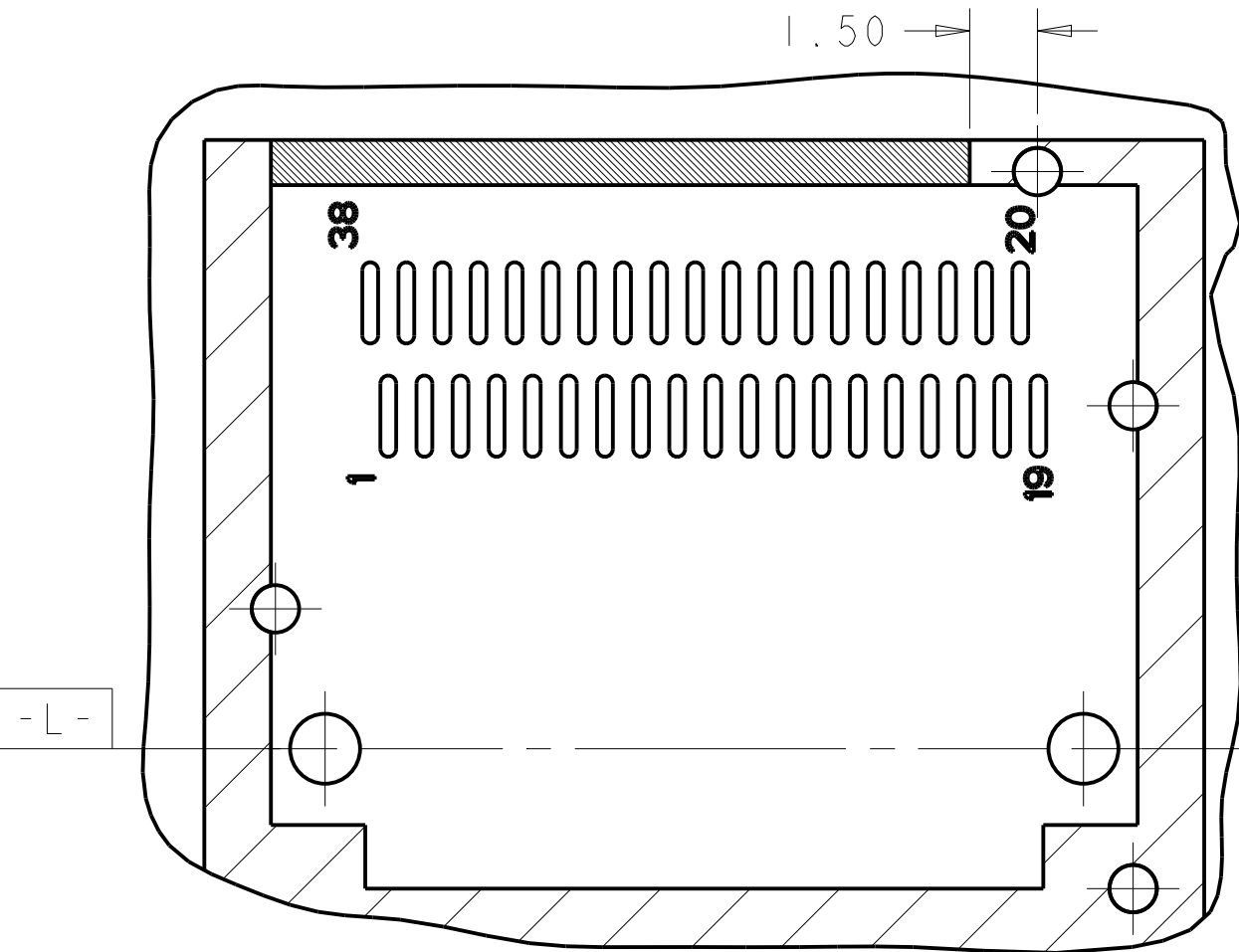


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: JASON YANG 23SEP2013		
		CHK: SEAN HAN 29JAN2016		
DIMENSIONS:		APVD: -	NAME: CAGE ASSEMBLY, OSFP28 1X1, THRU BEZEL WITH EMI SPRING FINGER	
mm		PRODUCT SPEC: 108-19428	SIZE: A100779	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC: 114-32023	CAGE CODE: 2170703	
0 PLC ± 0.25		WEIGHT: -	RESTRICTED TO: -	
1 PLC ± 0.25		RESTRICTED CUSTOMER	SCALE: 2:1	
2 PLC ± 0.20			SHEET 5 OF 7	
3 PLC ± 0.100			REV: D1	
4 PLC ± -				
ANGLES: -				
FINISH: -				

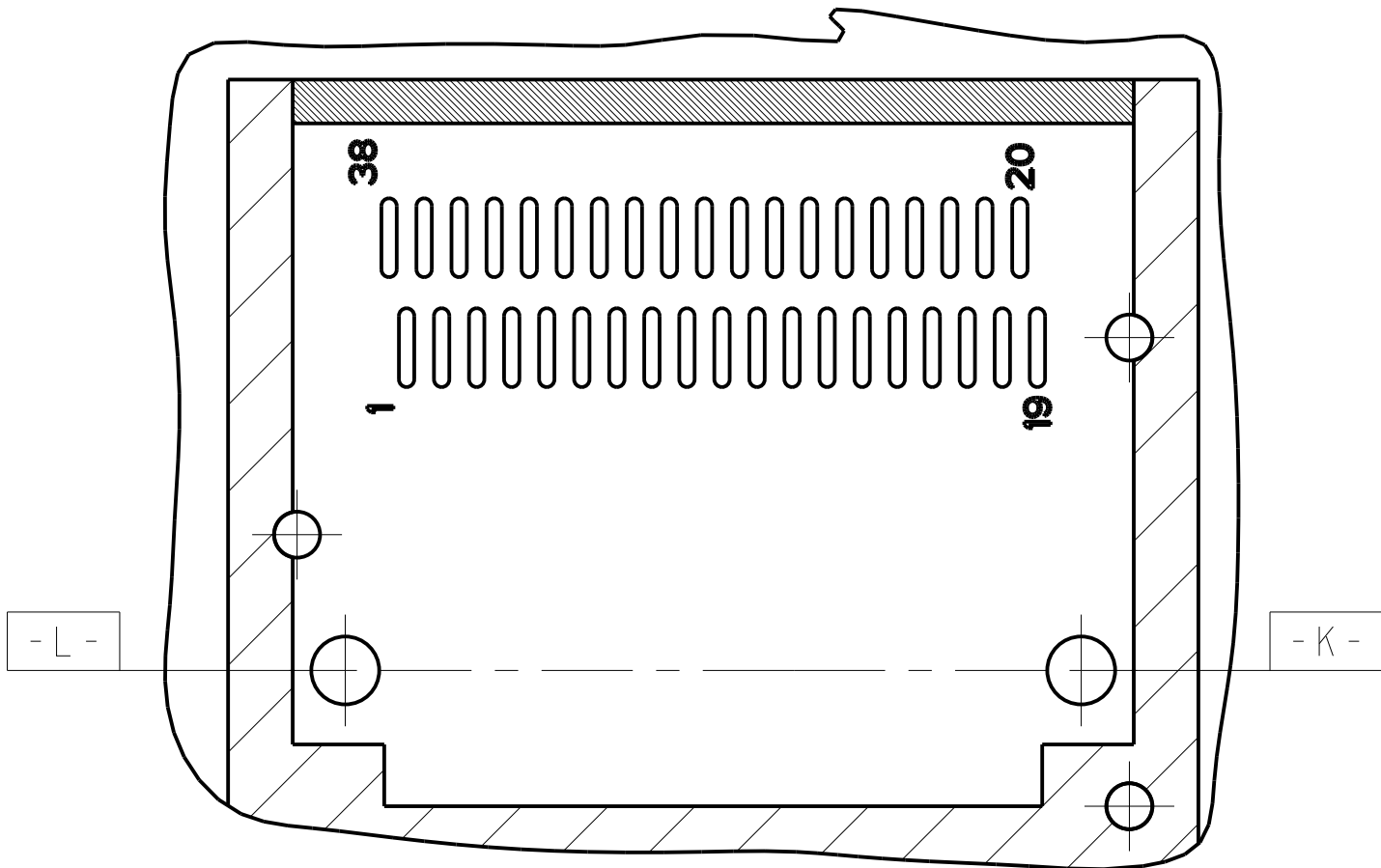
REVISIONS				
P	LTR	DESCRIPTION	DATE	OWN APVD
-	-	SEE SHEET 1	-	-



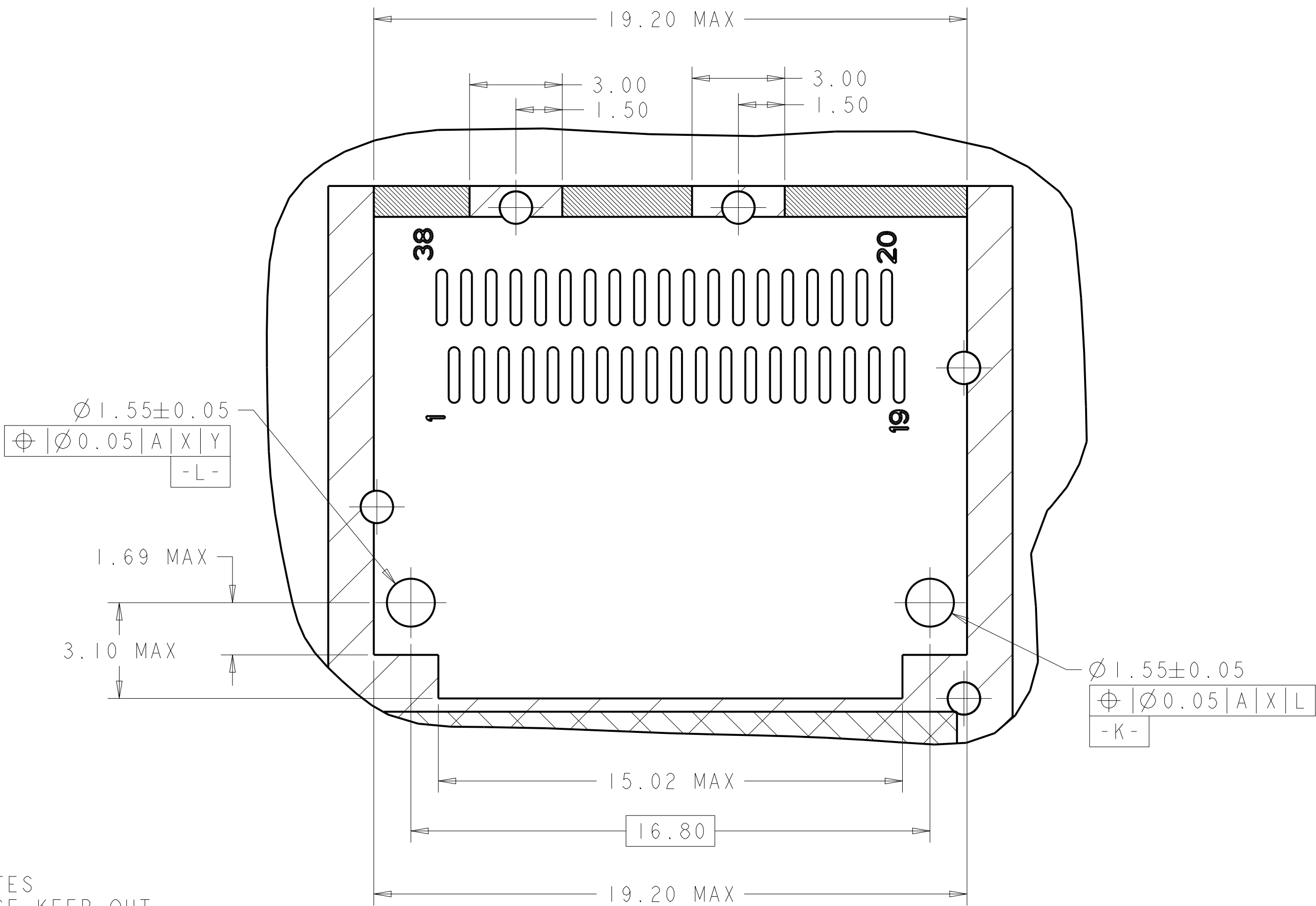
RECOMMENDED PCB LAYOUT
SINGLE TYPE OF 2 REAR HOLES OF LEGS
PCB TOLERANCE: ±0.05
SCALE 6:1



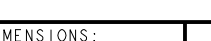
RECOMMENDED PCB LAYOUT
SINGLE TYPE OF 1 REAR HOLES OF LEGS
PCB TOLERANCE: ±0.05
SCALE 6:1



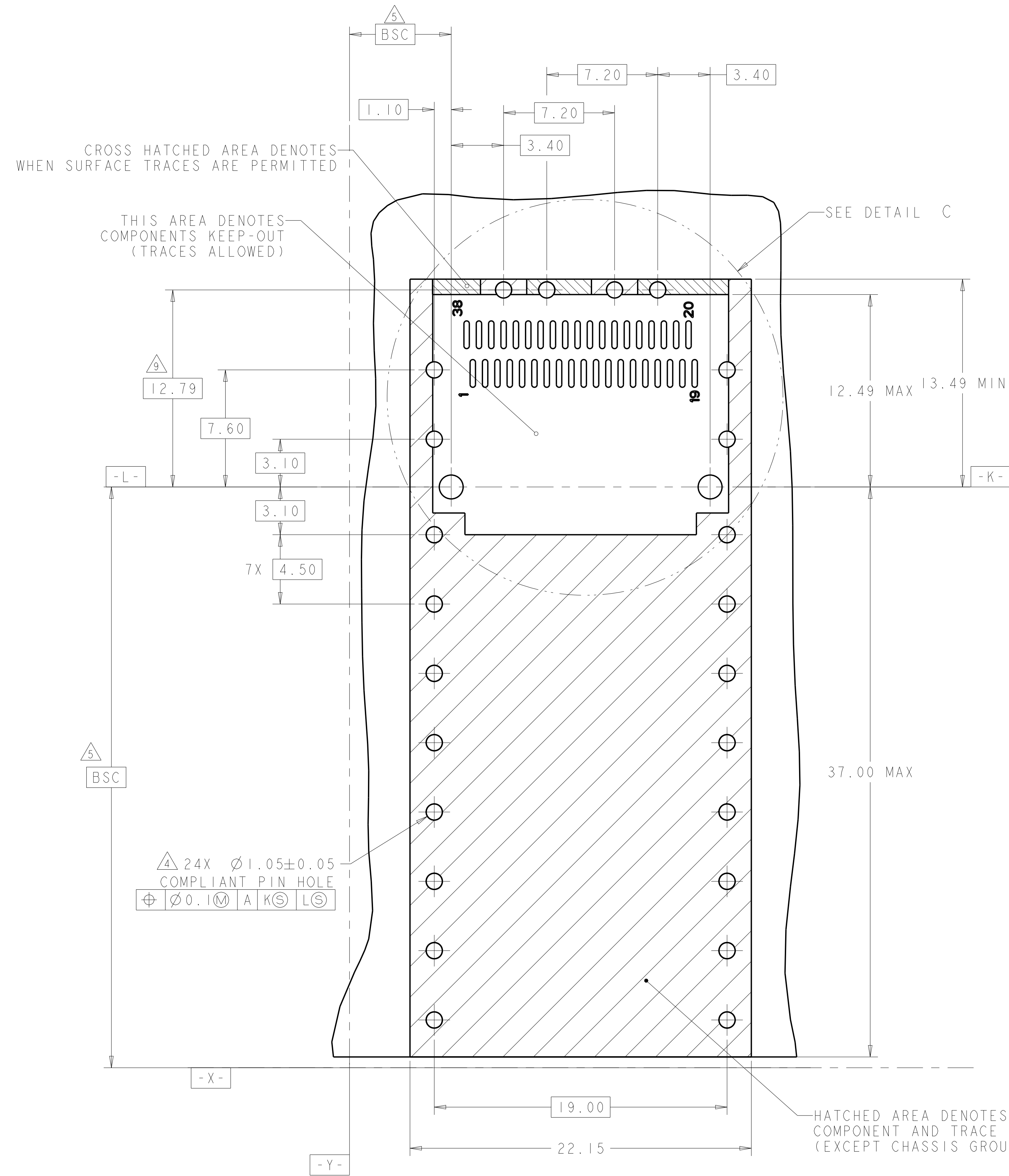
RECOMMENDED PCB LAYOUT
SINGLE TYPE OF 0 REAR HOLES OF LEGS
PCB TOLERANCE: ±0.05
SCALE 6:1



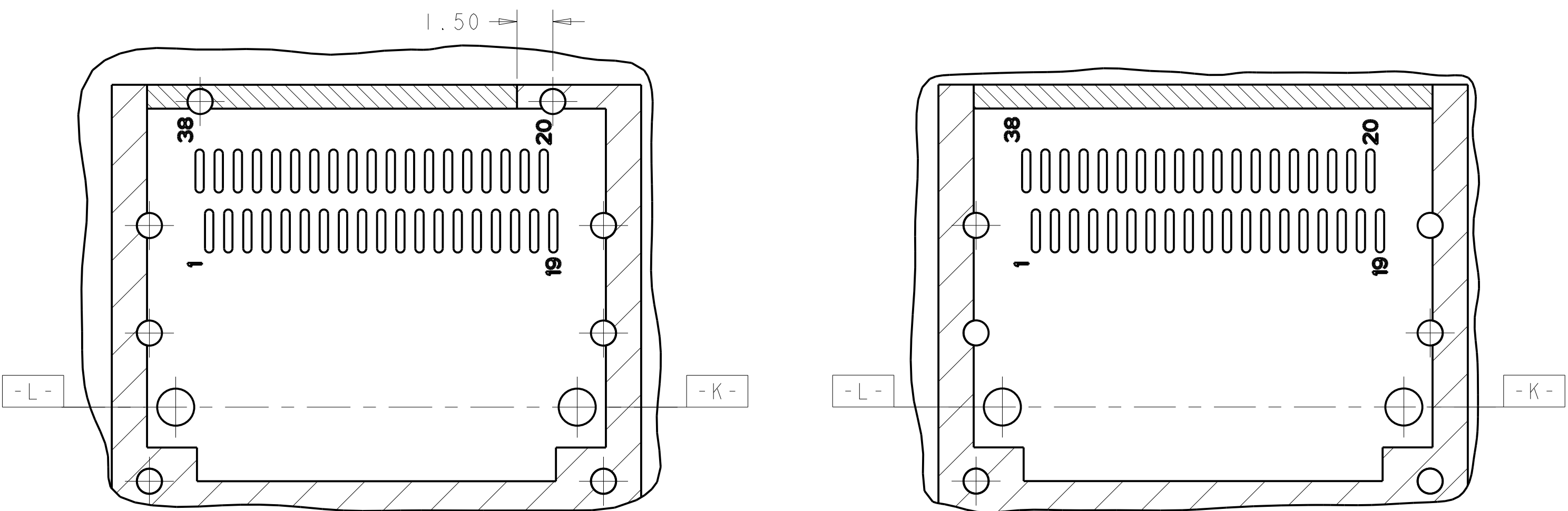
DETAIL B
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN JASON YANG 23SEP2013	 TE Connectivity	
DIMENSIONS:		CHK SEAN HAN 29JAN2016		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	NAME CAGE ASSEMBLY, QSFP28 1X1,THRU BEZEL WITH EMI SPRING FINGER	
	0 PLC ± 0.25 1 PLC ± 0.25 2 PLC ± 0.20 3 PLC ± 0.100 4 PLC ± - ANGLES ± -	108-19428 APPLICATION SPEC 114-32023		
MATERIAL	FINISH	WEIGHT	SIZE CAGE CODE DRAWING NO RESTRICTED TO	
-	-	-	A 100779 C= 2170703	
RESTRICTED CUSTOMER		SCALE 2:1 SHEET 6 OF 7 REV D		

REVISIONS				
P.	LTR.	DESCRIPTION	DATE	OWN
-	-	SEE SHEET 1	-	-

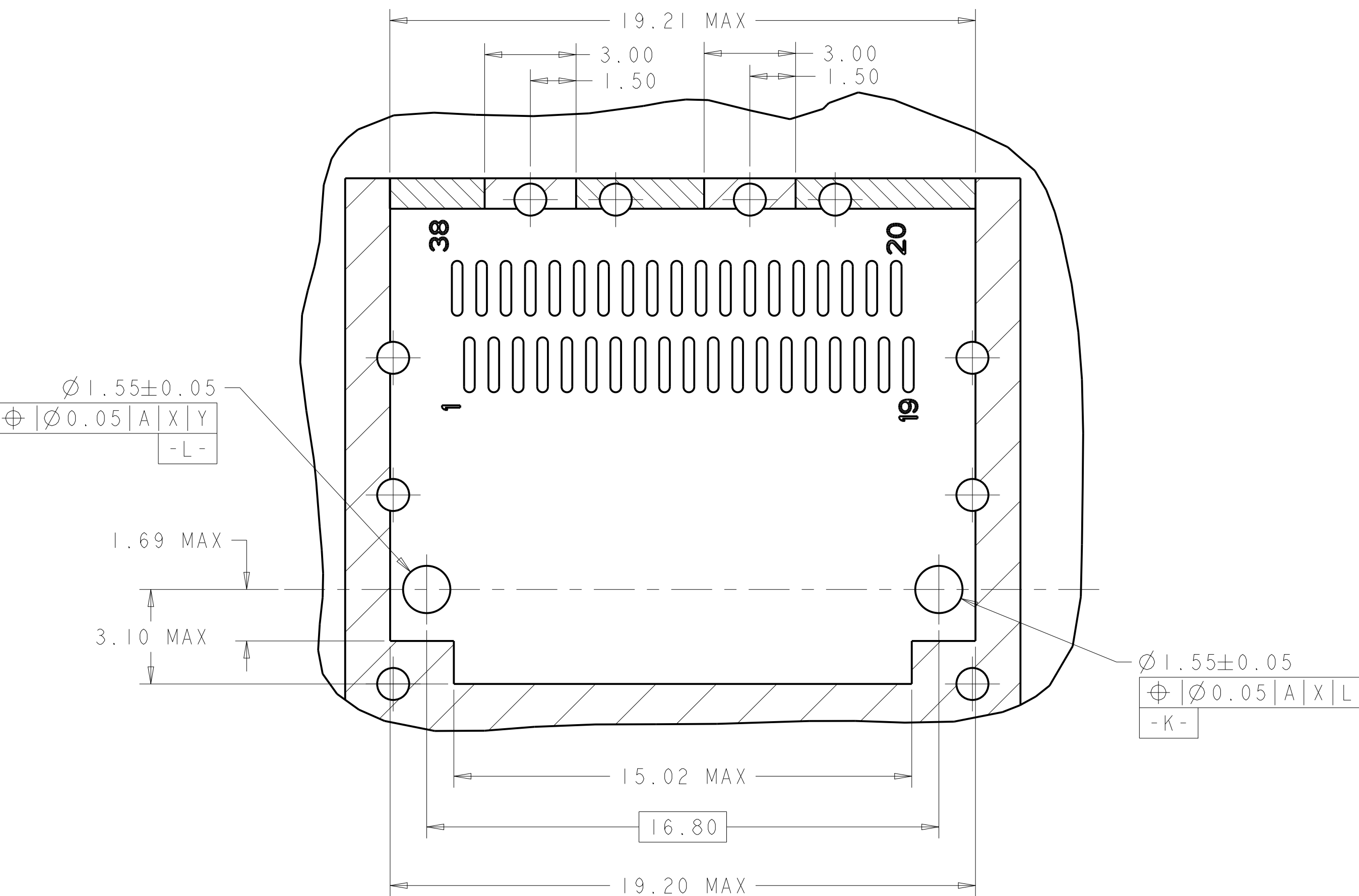


RECOMMENDED PCB LAYOUT
BELLY TO BELLY TYPE OF 2 REAR HOLES OF LEGS
PCB TOLERANCE: ±0.05
SCALE 6:1



RECOMMENDED PCB LAYOUT
BELLY TO BELLY TYPE OF 1 REAR HOLES OF LEGS
PCB TOLERANCE: ±0.05
SCALE 6:1

RECOMMENDED PCB LAYOUT
BELLY TO BELLY TYPE OF 0 REAR HOLES OF LEGS
PCB TOLERANCE: ±0.05
SCALE 6:1



DETAIL C
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: JASON YANG 23SEP2013	NAME: CAGE ASSEMBLY, QSP28 1X1 THRU BEZEL WITH EMI SPRING FINGER	
DIMENSIONS:		CHK: SEAN HAN 29JAN2016		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	SIZE: CAGE CODE	RESTRICTED TO
Ø	0 PLC ± 0.25	108-19428	114-32023	2170703
PLC	1 PLC ± 0.25	APPLICATION SPEC	WEIGHT	RESTRICTED CUSTOMER
PLC	2 PLC ± 0.25	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	3 PLC ± 0.20	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	4 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	5 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	6 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	7 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	8 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	9 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	10 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	11 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	12 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	13 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	14 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	15 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	16 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	17 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	18 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	19 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	20 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	21 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	22 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	23 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	24 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	25 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	26 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	27 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	28 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	29 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	30 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	31 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	32 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	33 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	34 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	35 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	36 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	37 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	38 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	39 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	40 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	41 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	42 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	43 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	44 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	45 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	46 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	47 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	48 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	49 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	50 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	51 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	52 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	53 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	54 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	55 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	56 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	57 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	58 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	59 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	60 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	61 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	62 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	63 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	64 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	65 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	66 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	67 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	68 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	69 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	70 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	71 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	72 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	73 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	74 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	75 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	76 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	77 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	78 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	79 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	80 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	81 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	82 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	83 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	84 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	85 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	86 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	87 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	88 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	89 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	90 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	91 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	92 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	93 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	94 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	95 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	96 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	97 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	98 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	99 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7
PLC	100 PLC ± 0.100	114-32023	SCALE 2:1	SHEET 7 OF 7