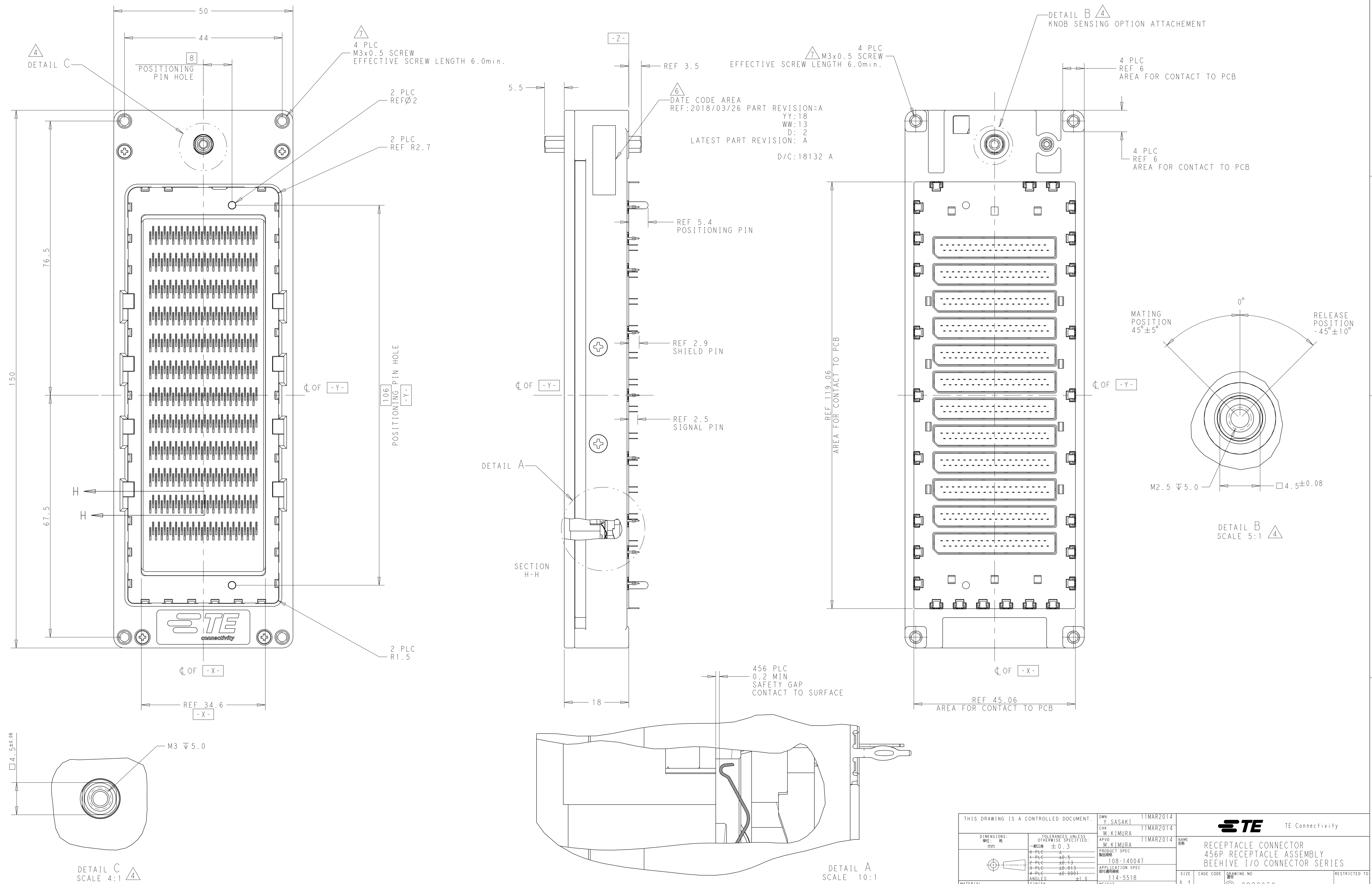


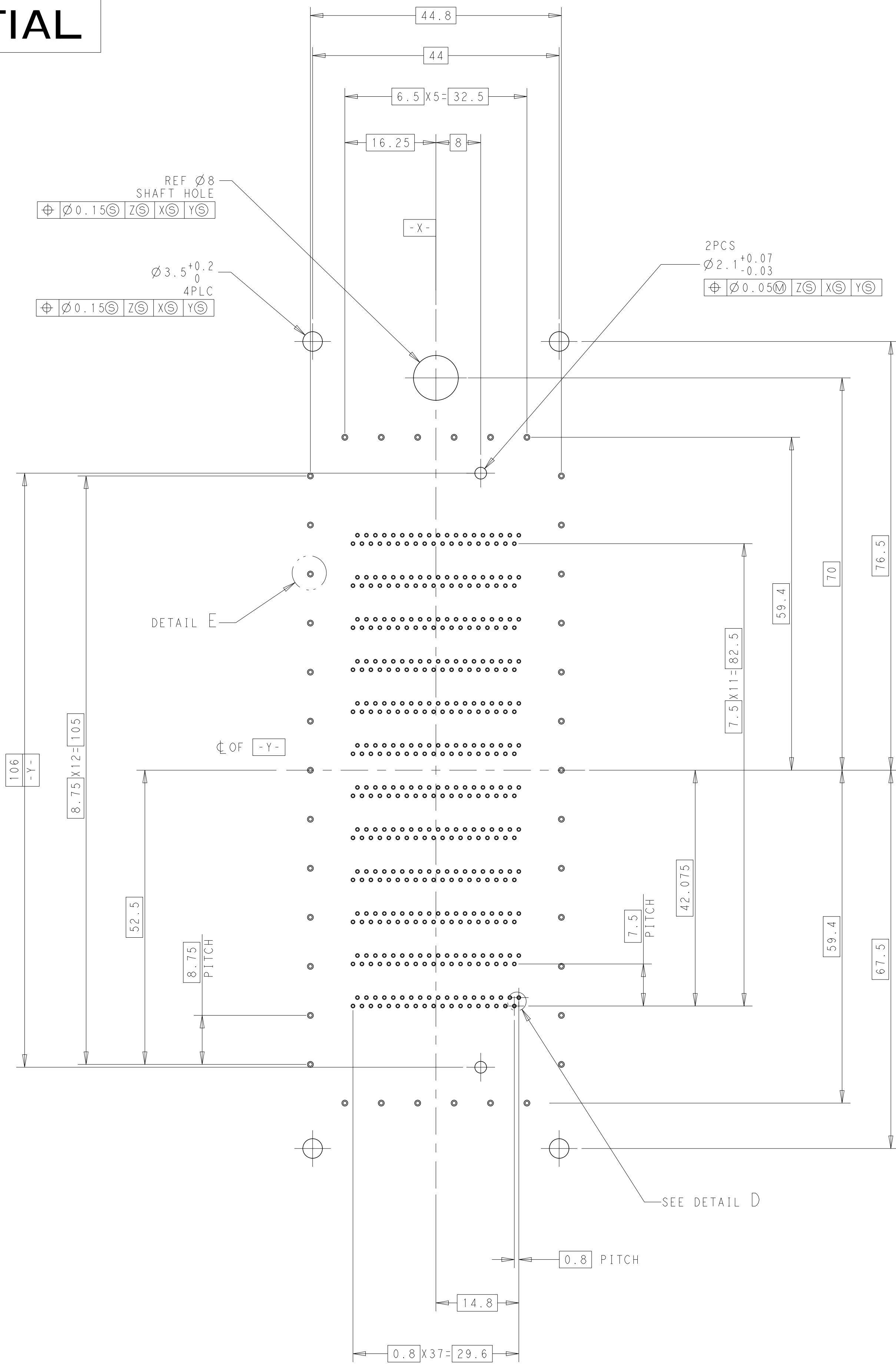
**CONFIDENTIAL**

REVISIONS				
REV	DESCRIPTION	DATE	OWN	APVD
E	REVISED	10SEP2015	Y.S	M.K
F	REVISED	06OCT2016	Y.S	M.K
G	REVISED FOR SHIELD FINGER CHANGED	23FEB2018	Y.S	M.K
H	REVISED ECO-18-006616	27APR2018	Y.S	M.K



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: Y. SASAKI 11MAR2014	TE Connectivity
DIMENSIONS: UNLESS OTHERWISE SPECIFIED: mm		CHK: M. KIMURA 11MAR2014	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 9-PLC ±0.3 1-PLC ±0.5 2-PLC ±0.13 3-PLC ±0.013 4-PLC ±0.0041 ANGLES ±1.0		APVD: M. KIMURA 11MAR2014	NAME: S/N
MATERIAL: SEE SHEET 3 TABLE		PRODUCT SPEC: 108-140047	RECEPTACLE CONNECTOR 456P RECEPTACLE ASSEMBLY BEEHIVE I/O CONNECTOR SERIES
FINISH: SEE SHEET 3 TABLE		APPLICATION SPEC: 114-5518	SIZE: A1
WEIGHT: 308 g		DRAWING NO: C=2822650	RESTRICTED TO: H
CUSTOMER DRAWING		SCALE: 2:1	SHEET 1 OF 7

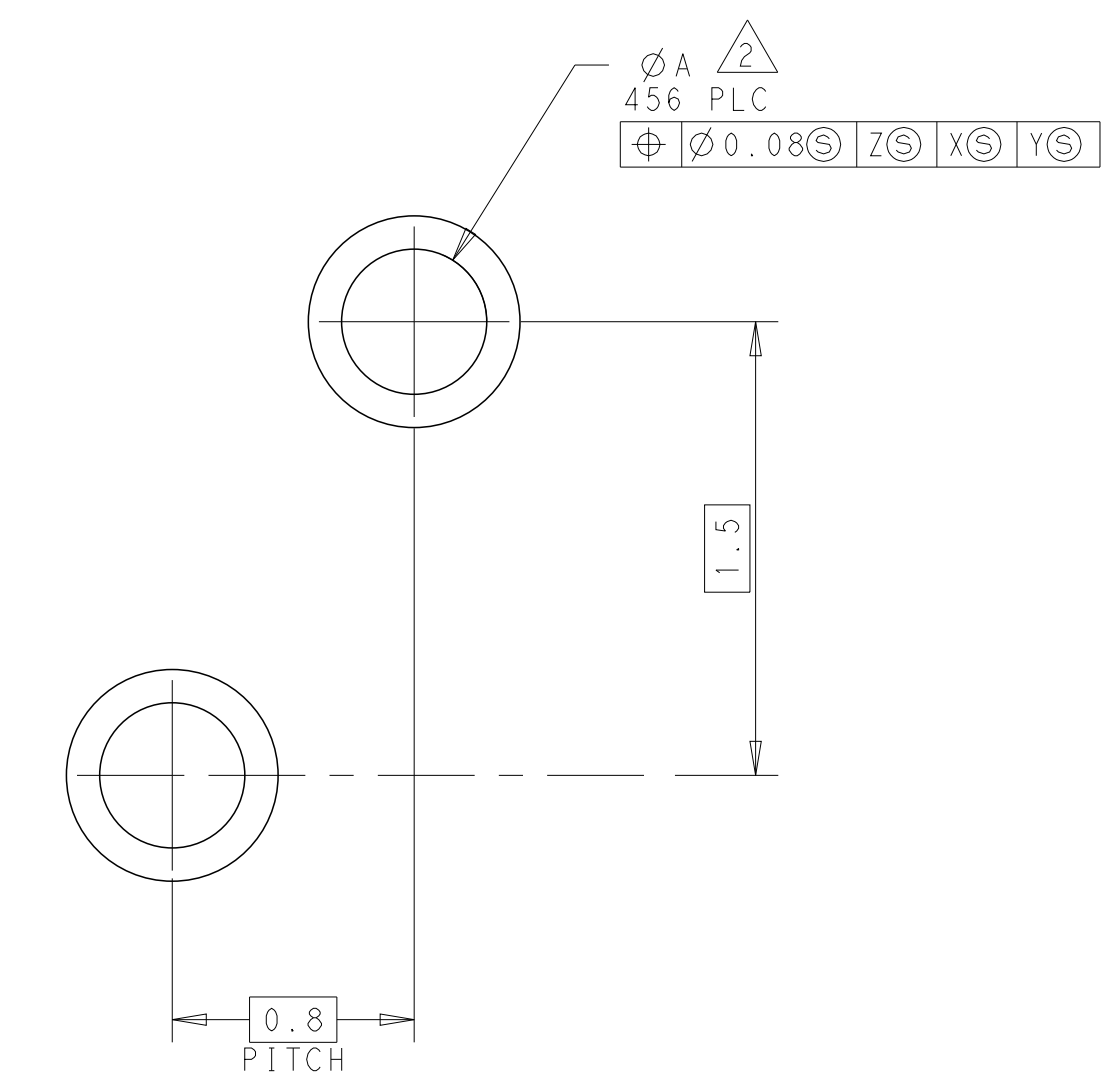
**CONFIDENTIAL**



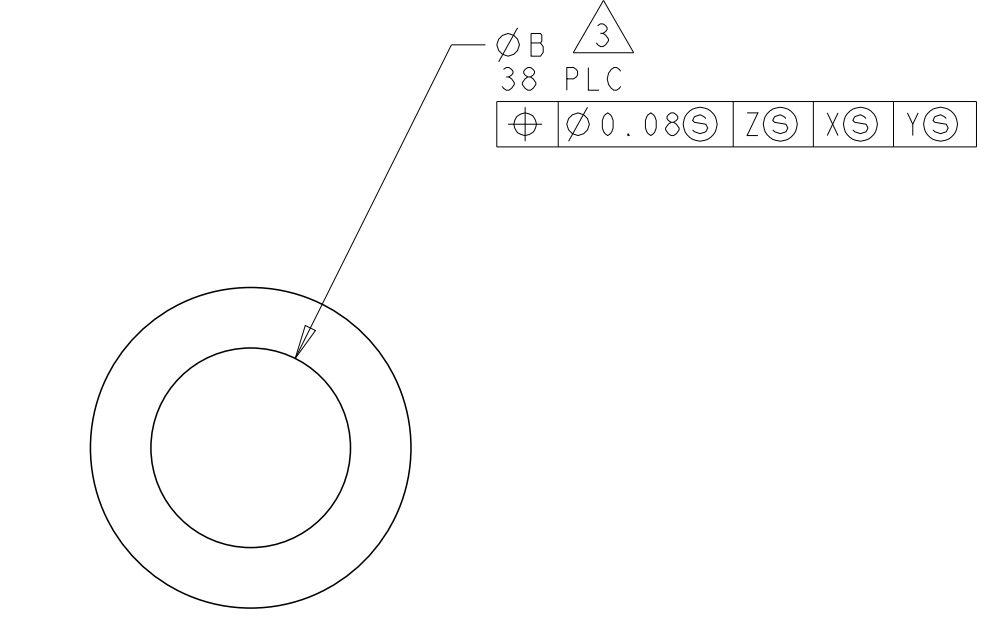
REF  $\varnothing 8$   
SHAFT HOLE  
 $\varnothing 0.15$  Z X Y

$\varnothing 3.5^{+0.2}_0$   
4PLC  
 $\varnothing 0.15$  Z X Y

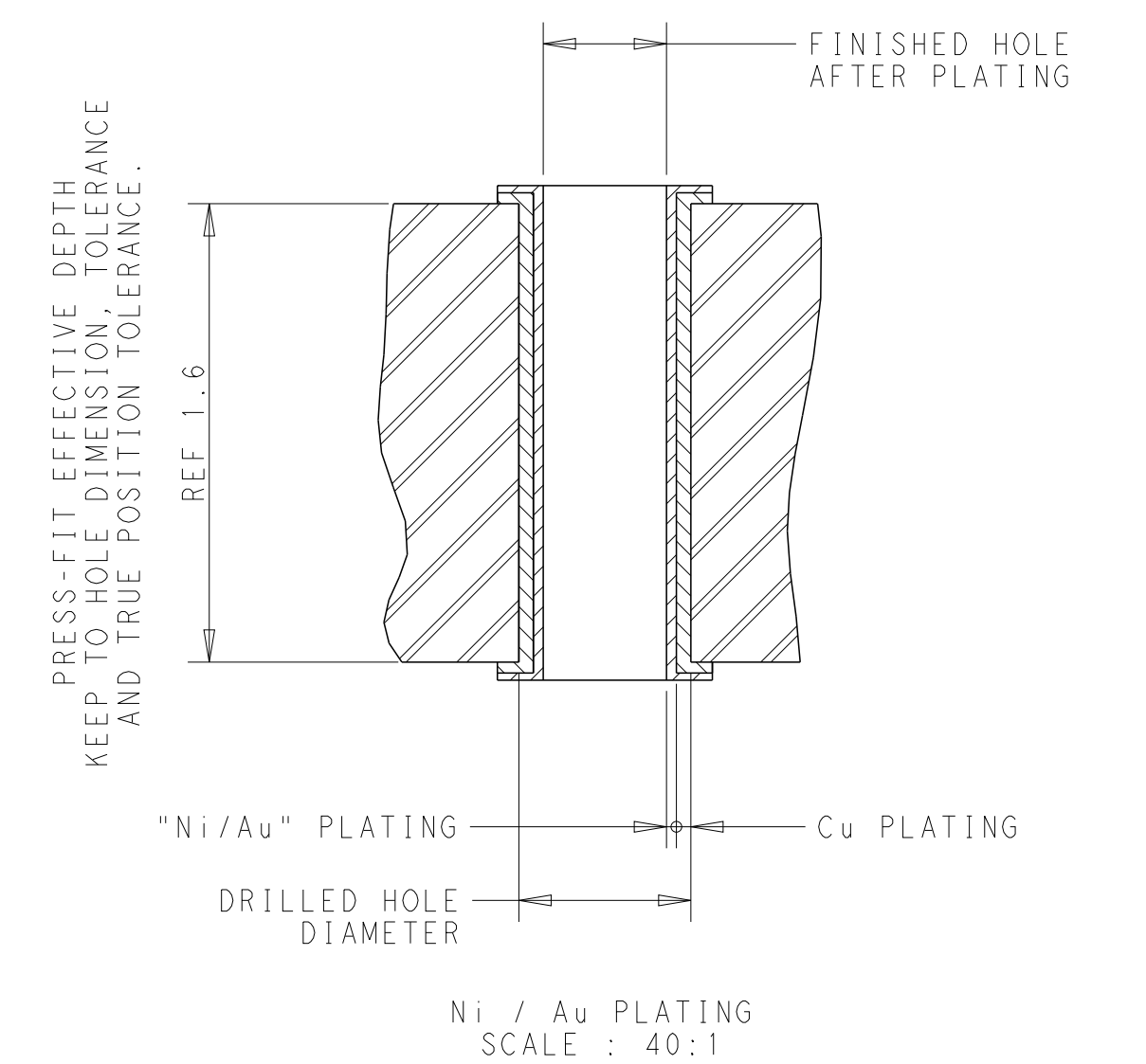
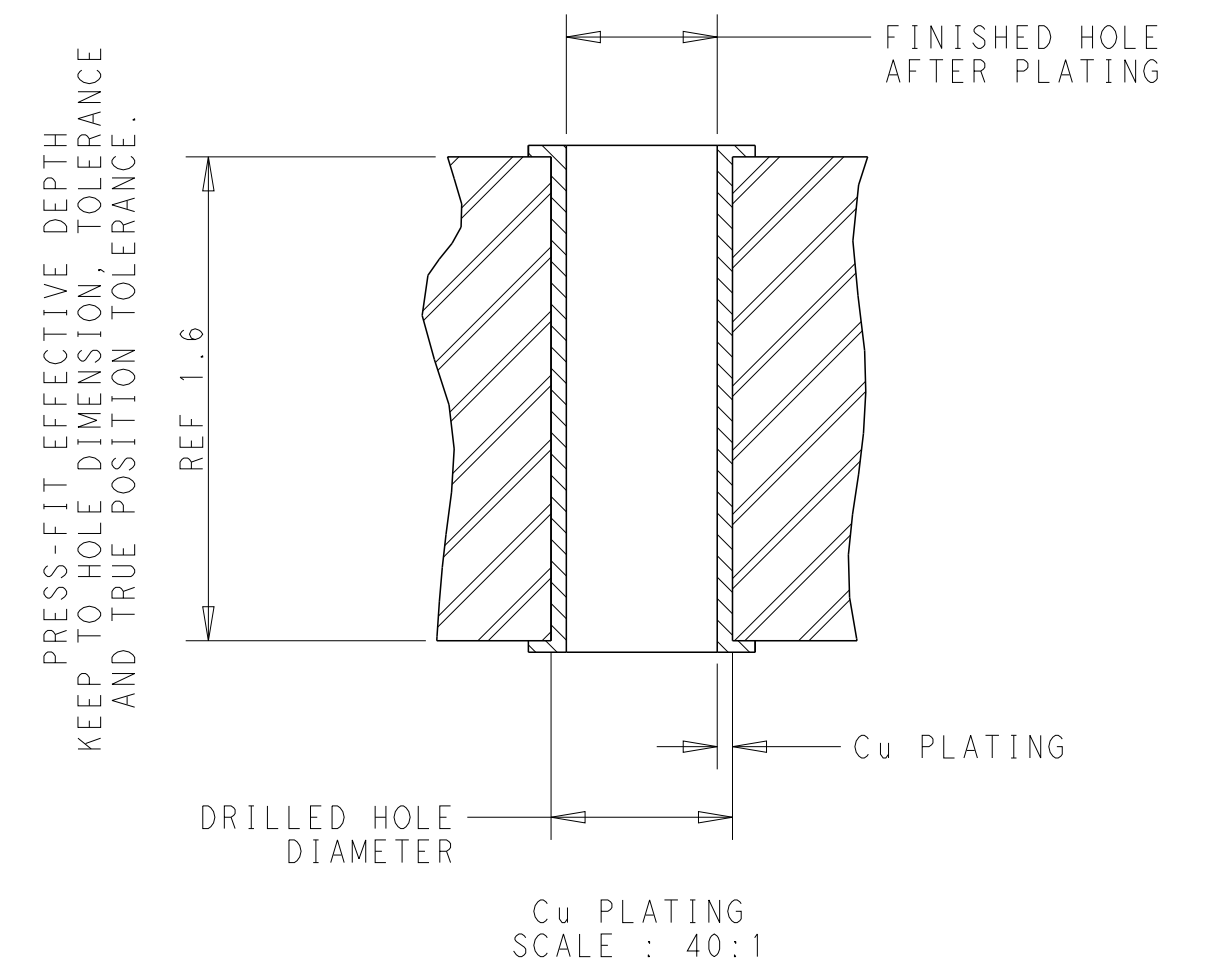
2PCS  
 $\varnothing 2.1^{+0.07}_{-0.03}$   
 $\varnothing 0.05$  Z X Y



DETAIL D  
SCALE 40:1



DETAIL E  
SCALE 40:1



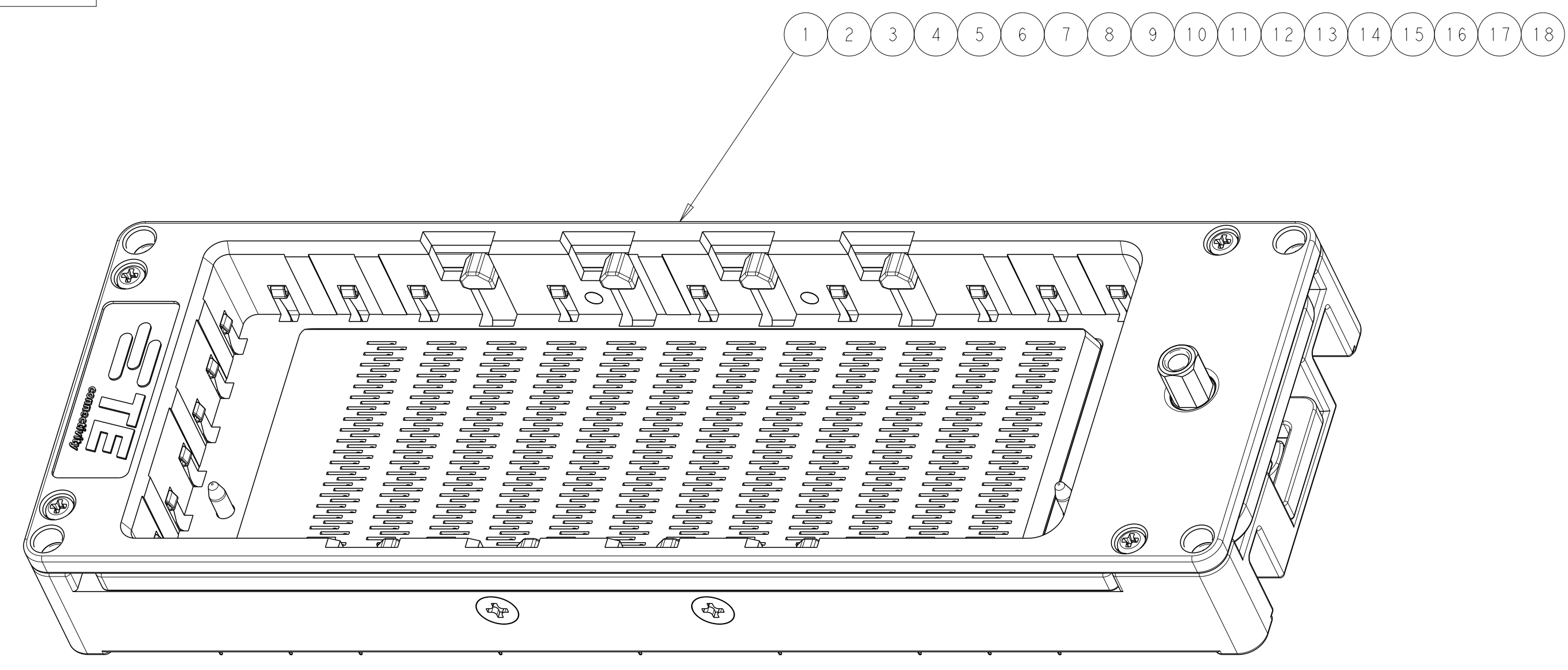
- PCB SPECIFICATION  
MATERIAL : FR4(REF)  
THICKNESS : 1.6mm MINIMUM
- PLATED THROUGH HOLE  $\varnothing A$   
COPPER PLATING TYPE  
COPPER FINISHED T,H DIA : REF  $\varnothing 0.48$  ( $\varnothing 0.48 \pm 0.05$ )  
DRILL HOLE DIA :  $\varnothing 0.56 \pm 0.02$   
COPPER PLATING :  $0.038 \pm 0.013$   
Au PLATING TYPE  
Au FINISHED T,H DIA : REF  $\varnothing 0.48$  ( $\varnothing 0.48 \pm 0.05$ )  
DRILL HOLE DIA :  $\varnothing 0.56 \pm 0.02$   
COPPER PLATING :  $0.038 \pm 0.013$   
Ni PLATING : 0.00127 TO 0.0026mm  
Au PLATING : 0.0001 TO 0.0005mm
- PLATED THROUGH HOLE  $\varnothing B$   
COPPER PLATING TYPE  
COPPER FINISHED T,H DIA : REF  $\varnothing 0.66$  ( $\varnothing 0.66 \pm 0.05$ )  
DRILL HOLE DIA :  $\varnothing 0.74 \pm 0.025$   
COPPER PLATING :  $0.038 \pm 0.013$   
Au PLATING TYPE  
Au FINISHED T,H DIA : REF  $\varnothing 0.66$  ( $\varnothing 0.66 \pm 0.05$ )  
DRILL HOLE DIA :  $\varnothing 0.74 \pm 0.025$   
COPPER PLATING :  $0.038 \pm 0.013$   
Ni PLATING : 0.00127 TO 0.0026mm  
Au PLATING : 0.0001 TO 0.0005mm

RECOMMENDED PCB LAYOUT  
CONNECTOR TOP VIEW

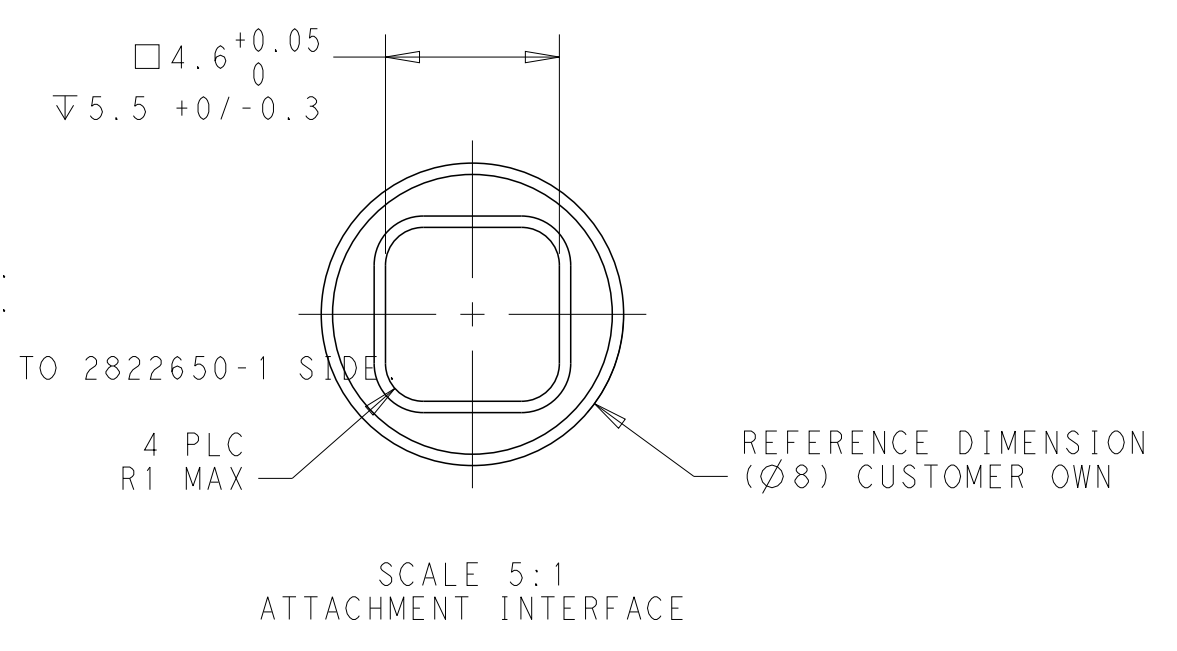
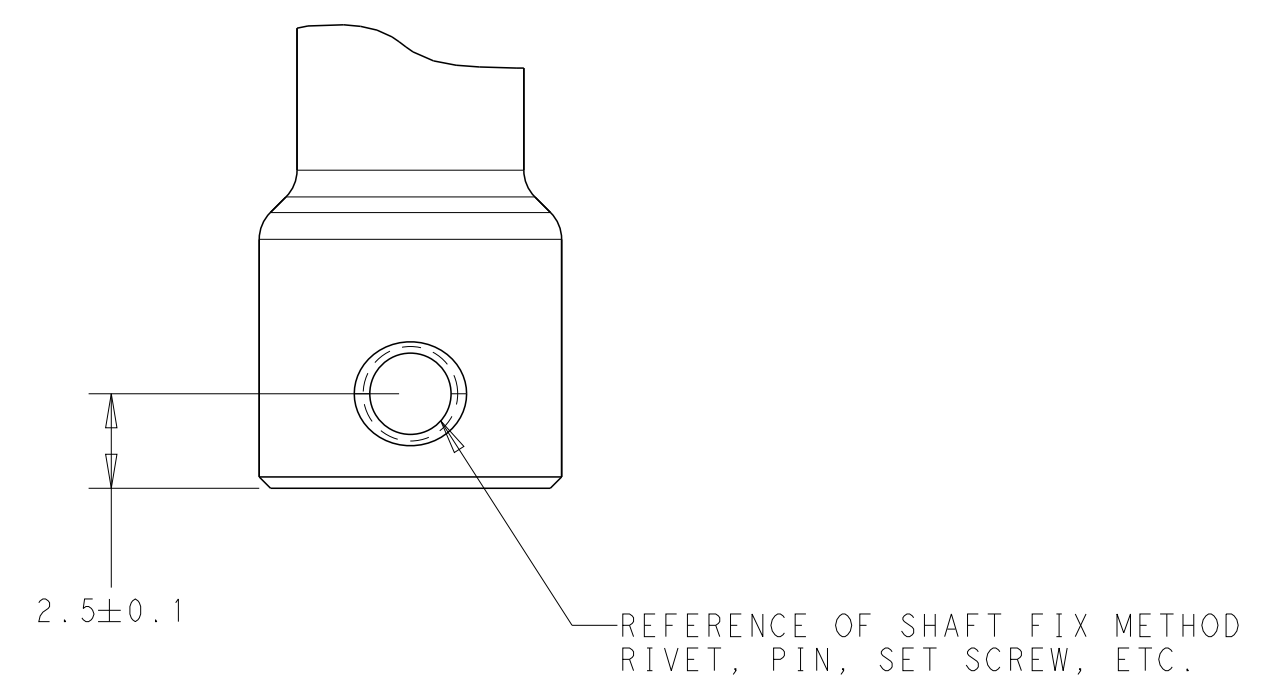
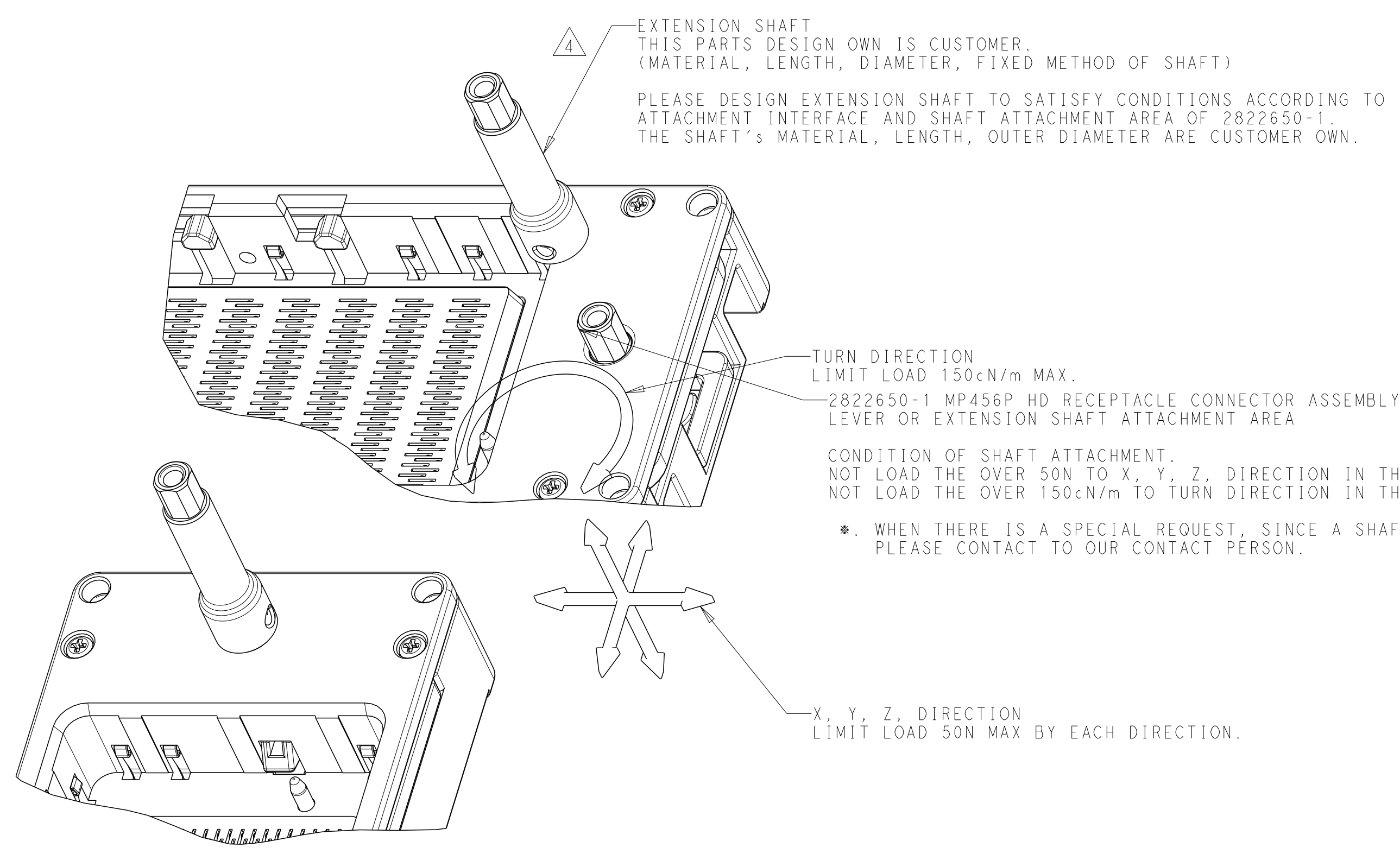
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN T. SASAKI 11MAR2014	REVISITONS	
DIMENSIONS: mm		CHK M. KIMURA 11MAR2014	DESCRIPTION SEE SHEET 1	DATE
TOLERANCES UNLESS OTHERWISE SPECIFIED: mm		APVD M. KIMURA 11MAR2014	DATE	OWN
0-PLC ±0.3		NAME M. KIMURA	DATE	APVD
1-PLC ±0.5		PRODUCT SPEC 108-140047		
2-PLC ±0.13		APPLICATION SPEC 114-5518		
3-PLC ±0.03		SIZE A1	CAGE CODE -	DRAWING NO C=2822650
4-PLC ±0.001		WEIGHT 308 g	RESTRICTED TO	
ANGLES ±1.0		CUSTOMER DRAWING	SCALE 2:1	SHEET 2 of 7
FINISH SEE SHEET 3 TABLE				REV H

**CONFIDENTIAL**

REVISIONS				
REV	DATE	DESCRIPTION	BY	APPV
-	-	SEE SHEET 1	-	-



- 4. WHEN ROTATE A LEVER  $90 \pm 10$  DEGREES, THERE NEEDS TO BE A FEELING OF A CLICK. WHEN MATING WITH PLUG ASSY LEVER OPERATING TORQUE :  $70 \text{cN}\cdot\text{m}$  MAX.
- 5. DIELECTRIC WITHSTAND VOLTAGE : 500VAC ,CURRENT LEAKAGE 0.5mA,2sec DISCONTINUITY TEST, TEST CONDITION : VOLTAGE 5VDC, 2sec. LEVER ANGLE :  $90 \pm 10$  (LOCK AND CONNECT COMPLETE STATE)
- 6. STAMP A DATE CODE : YYWWD \* (\* IS LATEST PART REVISION. REF:PART REVISION IS A. YYWWD A)
- 7. M3 SCREWS TO BE MOUNTED USING TORQUE DRIVER. TORQUE : REFER TO 0.315N·m
- 8. USED MATERIAL AND FINISH ARE ON THE TABLE OF SHEET 3.
- 9. PCB MOUNT M3.0 SCREW AND PCB, PCB ASSEMBLY ARE CUSTOMER OWN COMPONENT. THESE CUSTOMER OWN COMPONENT SHOULD MEET TE RECOMMENDATION FOR CONNECTOR ASSEMBLY.



QTY	MATERIAL	NAME	ITEM NO
4	SUS / Alok	M2.5x4 FLAT HEAD SCREW WITH ALOK	18
AR	LUBRICANT GREASE	-	17
AR	LUBRICANT OIL	-	16
4	SUS / Alok	M2.0x0.4 L6 SHALLOW HEAD SCREW	15
1	MISUMI BSZF3 OR EQUIVALENT PRODUCT	BALL PRANGER	14
1	SUS	LOCK BLOCK SPRING	13
1	SUS MIM	SHAFT LOCK BLOCK	12
2	SUS	POST PIN	11
1	Zn ALLOY DIE-CAST FINISH : Ni PLATING	UPPER SHELL	10
1	Zn ALLOY DIE-CAST FINISH : Ni PLATING	LOCK PLATE	9
1	LCP GF10	UPPER HOUSING	8
1	PA9T GF30	LIFT PLATE	7
1	SUS MIM	CAM SHAFT	6
1	PA9T GF30	SLIDE PLATE	5
27	PH BRONZE FINISH : Au, Ni PLATING	SHIELD FINGER	4
12	LCP GF10	CONTACT HOUSING	3
456	COPPER ALLOY FINISH : Au, Ni PLATING	RECEPCACLE CONTACT	2
1	Zn ALLOY DIE-CAST FINISH : Ni PLATING	BASE HOUSING	1

THIS DRAWING IS A CONTROLLED DOCUMENT.

OWN: Y. SASAKI 11MAR2014  
 CHG: M. KIMURA 11MAR2014  
 APVD: M. KIMURA 11MAR2014

TE Connectivity

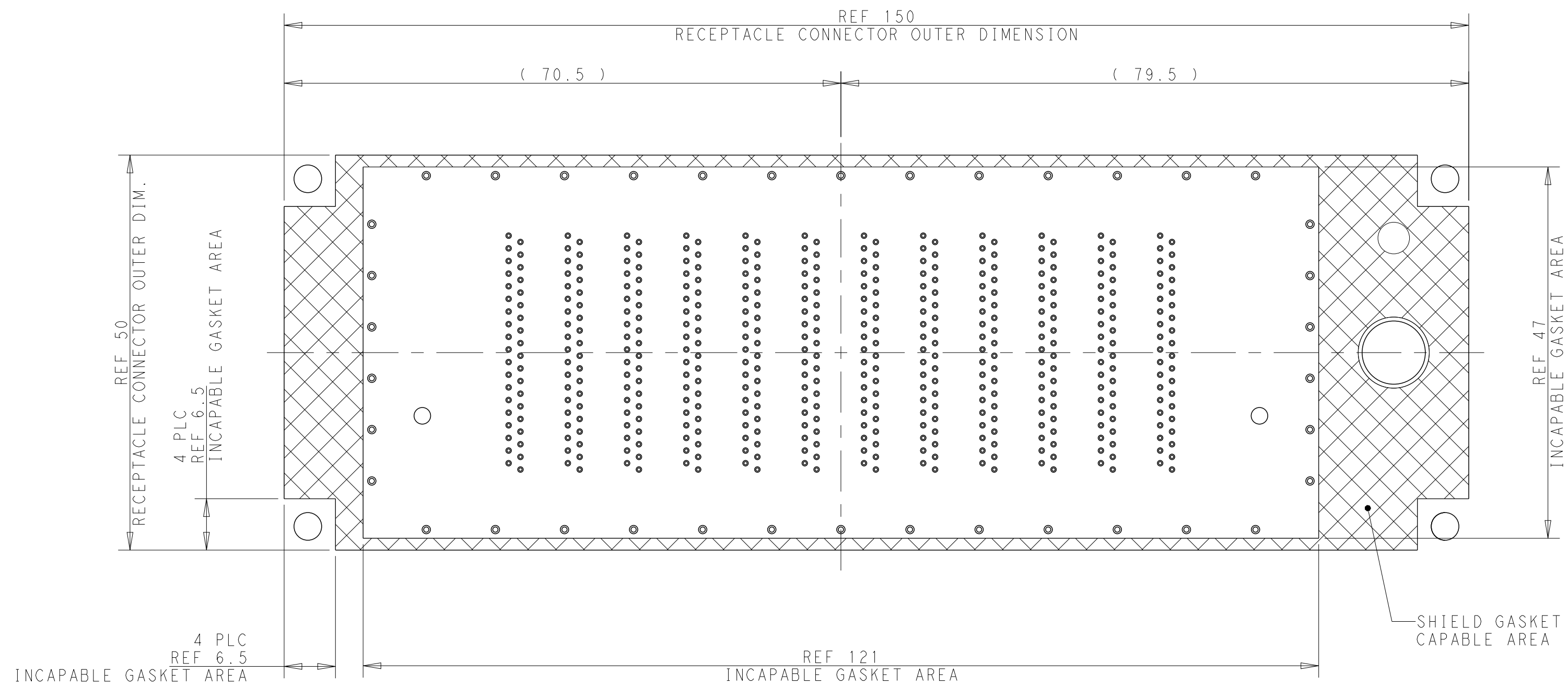
RECEPTACLE CONNECTOR  
 456P RECEPTACLE ASSEMBLY  
 BEEHIVE I/O CONNECTOR SERIES

SIZE: A1  
 CAGE CODE: -  
 DRAWING NO: C=2822650  
 RESTRICTED TO: H

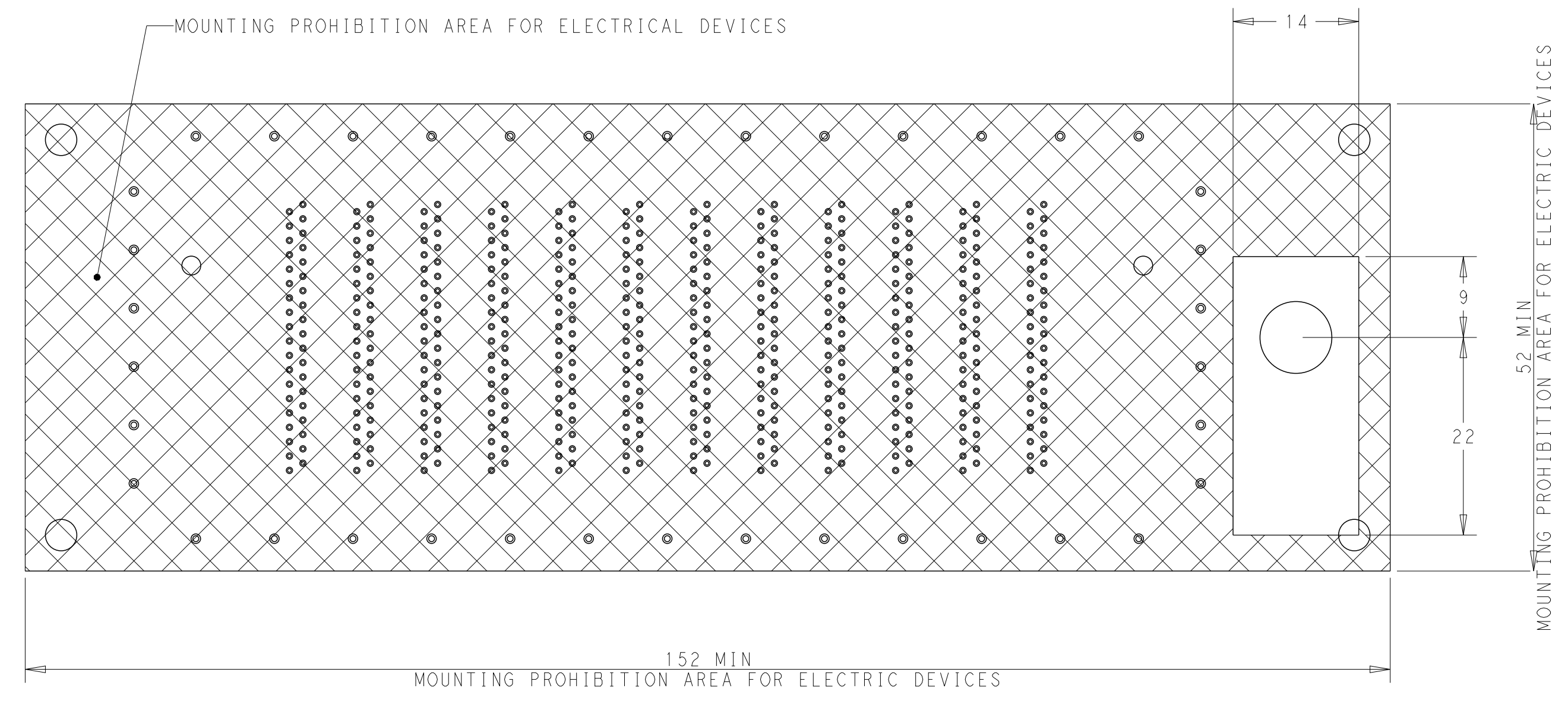
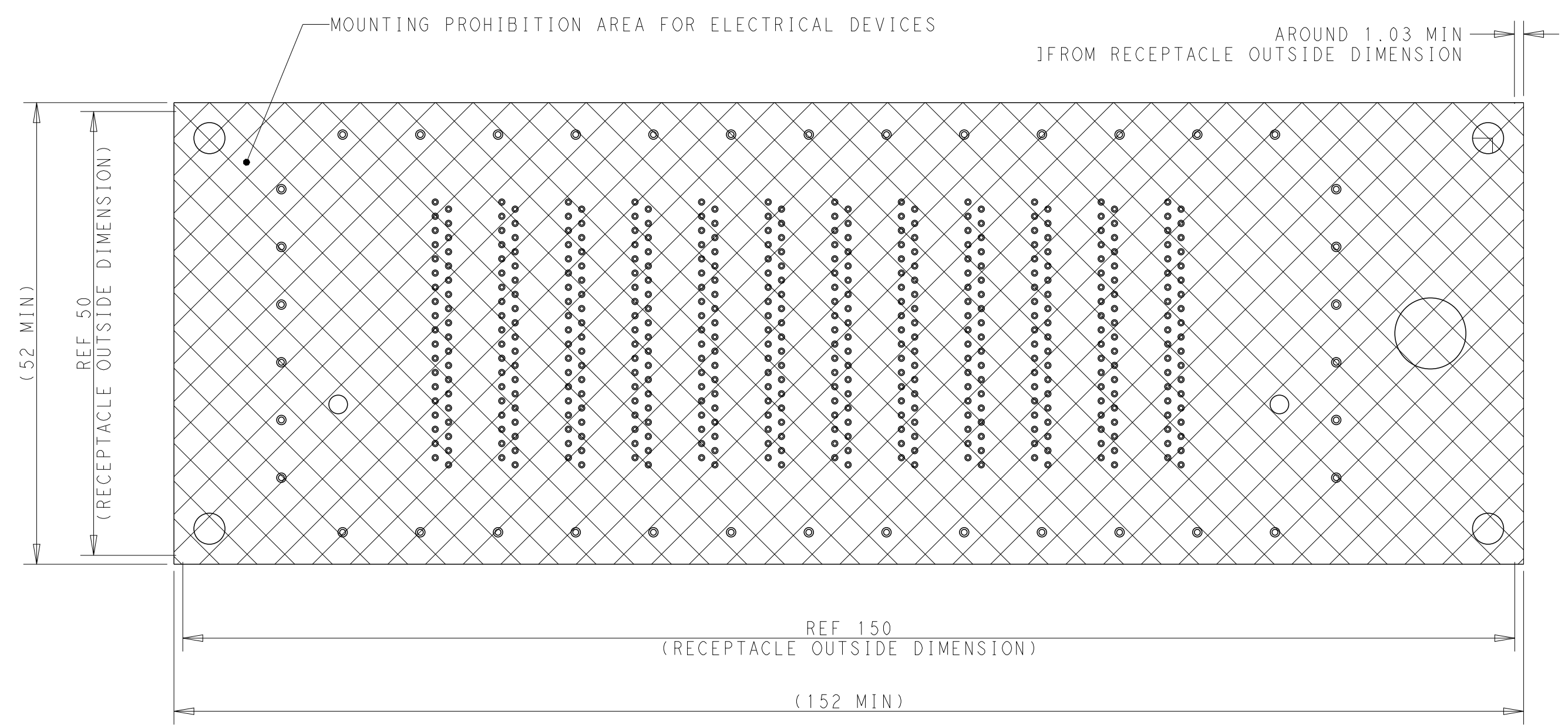
SCALE: 2:1 SHEET 3 OF 7 REV H

**CONFIDENTIAL**

REVISIONS				
P.	LTN.	DESCRIPTION	DATE	APVD.
-	-	SEE SHEET 1	-	-



SCALE 2:1  
SHIELD GASKET AREA



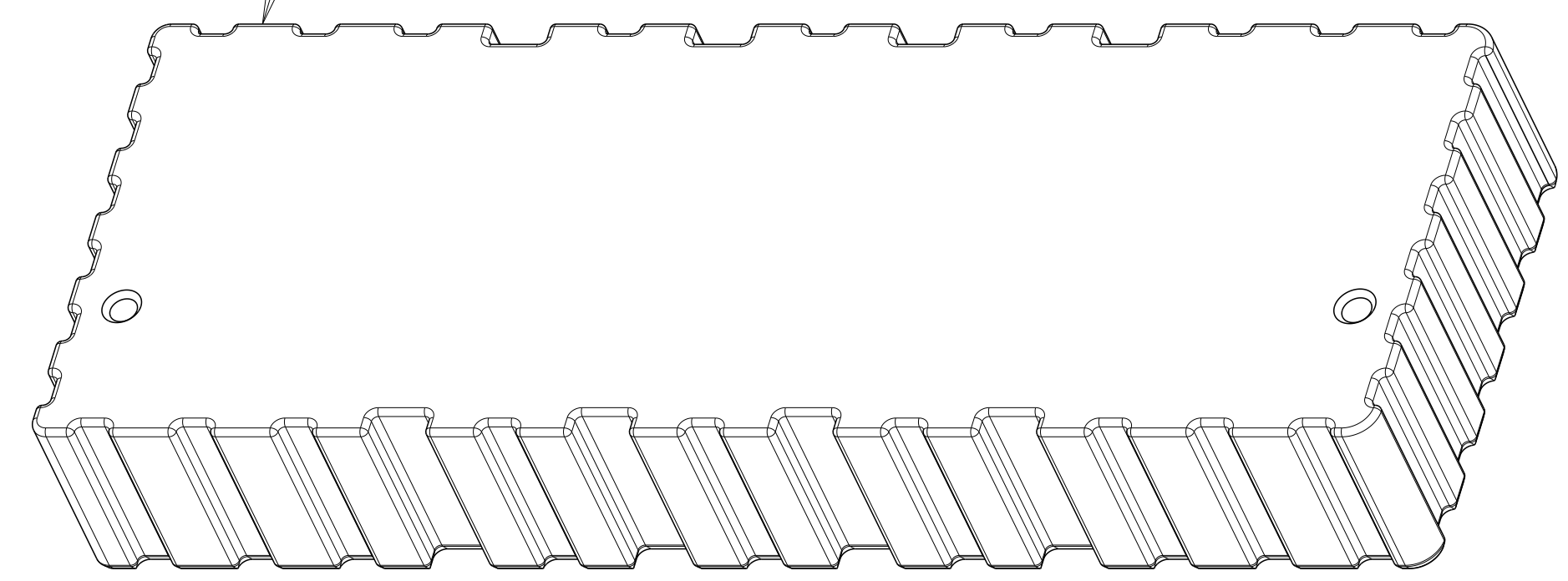
ELECTRIC DEVICES MOUNTING CONSTRAINT AREA

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN T. SASAKI 11MAR2014	TE Connectivity
DIMENSIONS: mm		CHK M. KIMURA 11MAR2014	
TOLERANCES UNLESS OTHERWISE SPECIFIED: mm		APVD M. KIMURA 11MAR2014	NAME SPE
0-PLC ±0.3 1-PLC ±0.5 2-PLC ±0.13 3-PLC ±0.013 4-PLC ±0.001		PRODUCT SPEC 108-140047	RECEPTACLE CONNECTOR 456P RECEPTACLE ASSEMBLY BEEHIVE I/O CONNECTOR SERIES
MATERIAL SEE SHEET 3 TABLE		APPLICATION SPEC 114-5518	SIZE A1
FINISH SEE SHEET 3 TABLE		WEIGHT -	CAGE CODE C=2822650
CUSTOMER DRAWING		SCALE 1:1	RESTRICTED TO SHEET 4 OF 7 REV H

**CONFIDENTIAL**

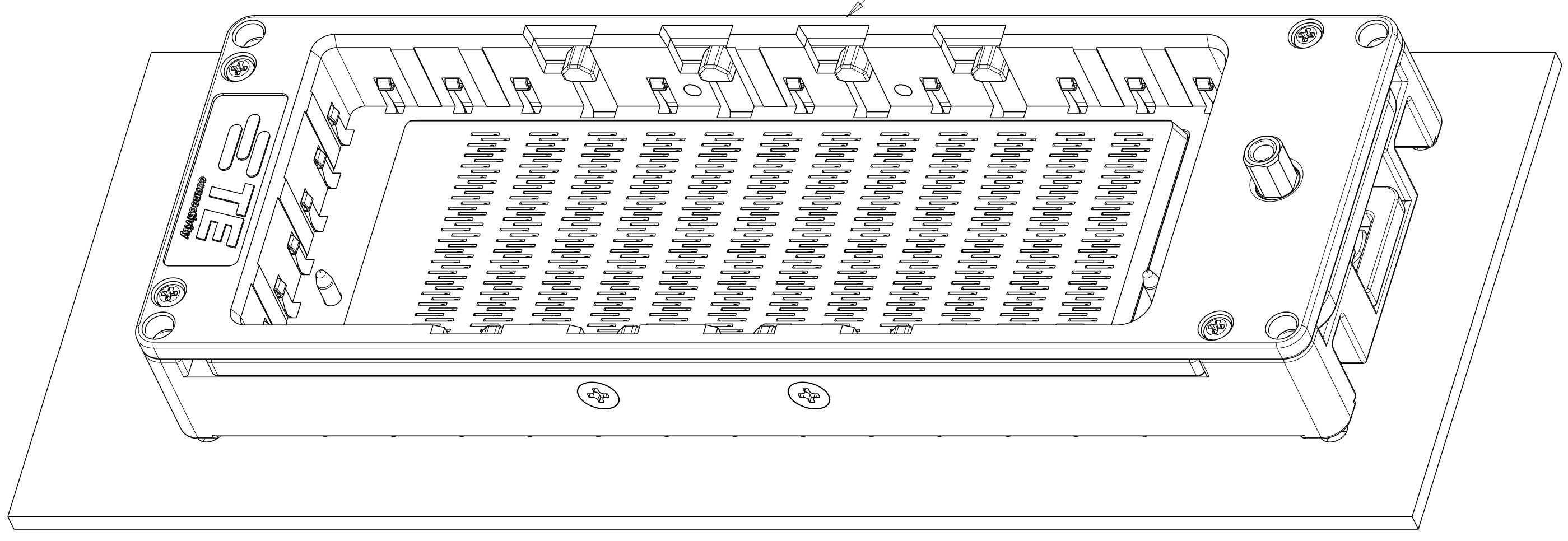
LOC		DIST		REVISIONS			
P	LTN	DESCRIPTION	DATE	OWN	APVD		
		SEE SHEET 1					

18 RECEPTACLE CONNECTOR PCB MOUNT FIXTURE : PUSHER  
 MATERIAL : SUITABLE MATERIAL  
 (TE INTERNAL FIXTURE SPEC / MATERIAL : SKS3  
 WITH HARDENING, GRIND, PLATING INCLUDED)  
 PRESS-FIT FORCE : REFERENCE 10,000N MAX

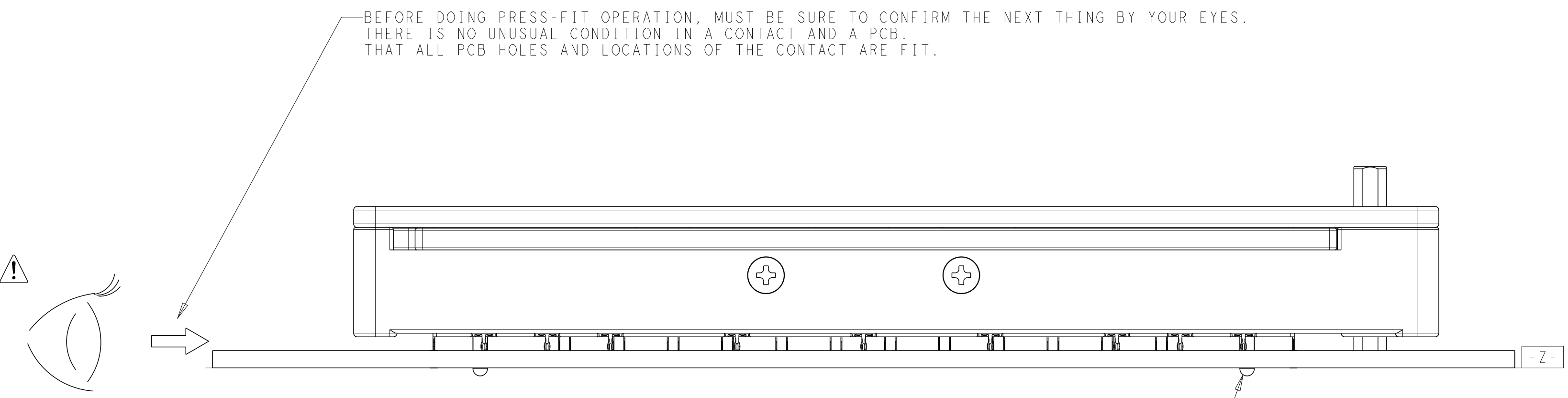


MP456P HD RECEPTACLE CONNECTOR  
 P/N : 2822650-\*

! IMPORTANT !  
 MUST BE APPLY THE LUBRICANT OIL TO ALL  
 PRESS-FIT CONTACT AND EACH PCB THROUGH HOLE.

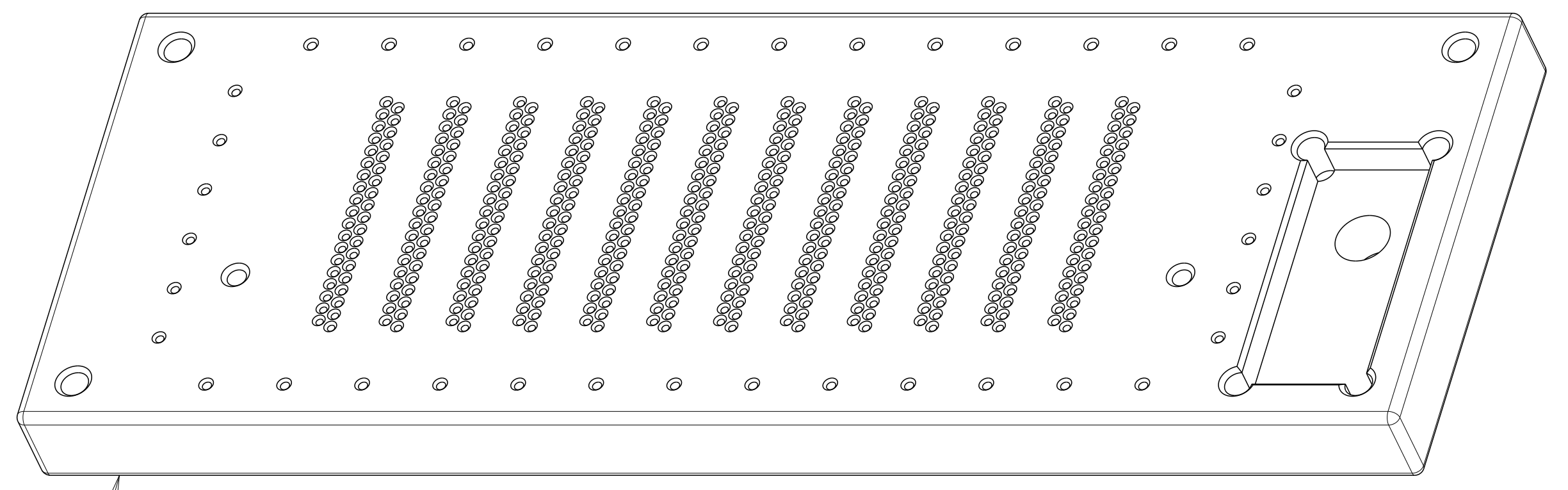


BEFORE DOING PRESS-FIT OPERATION, MUST BE SURE TO CONFIRM THE NEXT THING BY YOUR EYES.  
 THERE IS NO UNUSUAL CONDITION IN A CONTACT AND A PCB.  
 THAT ALL PCB HOLES AND LOCATIONS OF THE CONTACT ARE FIT.



WHEN THE THICKNESS OF PCB IS BIG, THE POSITIONING PINS DOES NOT WORK POSITIONING OF 2822650-\*.  
 PLEASE ADD A BEARING PIN TO BASE FIXTURE SO THAT THE LOCATION MAY BE DECIDED AT A HOLE IN A CORNER  
 AND M3 HOLE OF 2822650-\* OF BASE FIXTURE IN THIS CASE.

19 RECEPTACLE CONNECTOR PCB MOUNT FIXTURE : BASE  
 MATERIAL : SUITABLE MATERIAL  
 (TE INTERNAL FIXTURE SPEC / MATERIAL : SKS3  
 WITH HARDENING, GRIND, PLATING INCLUDED)

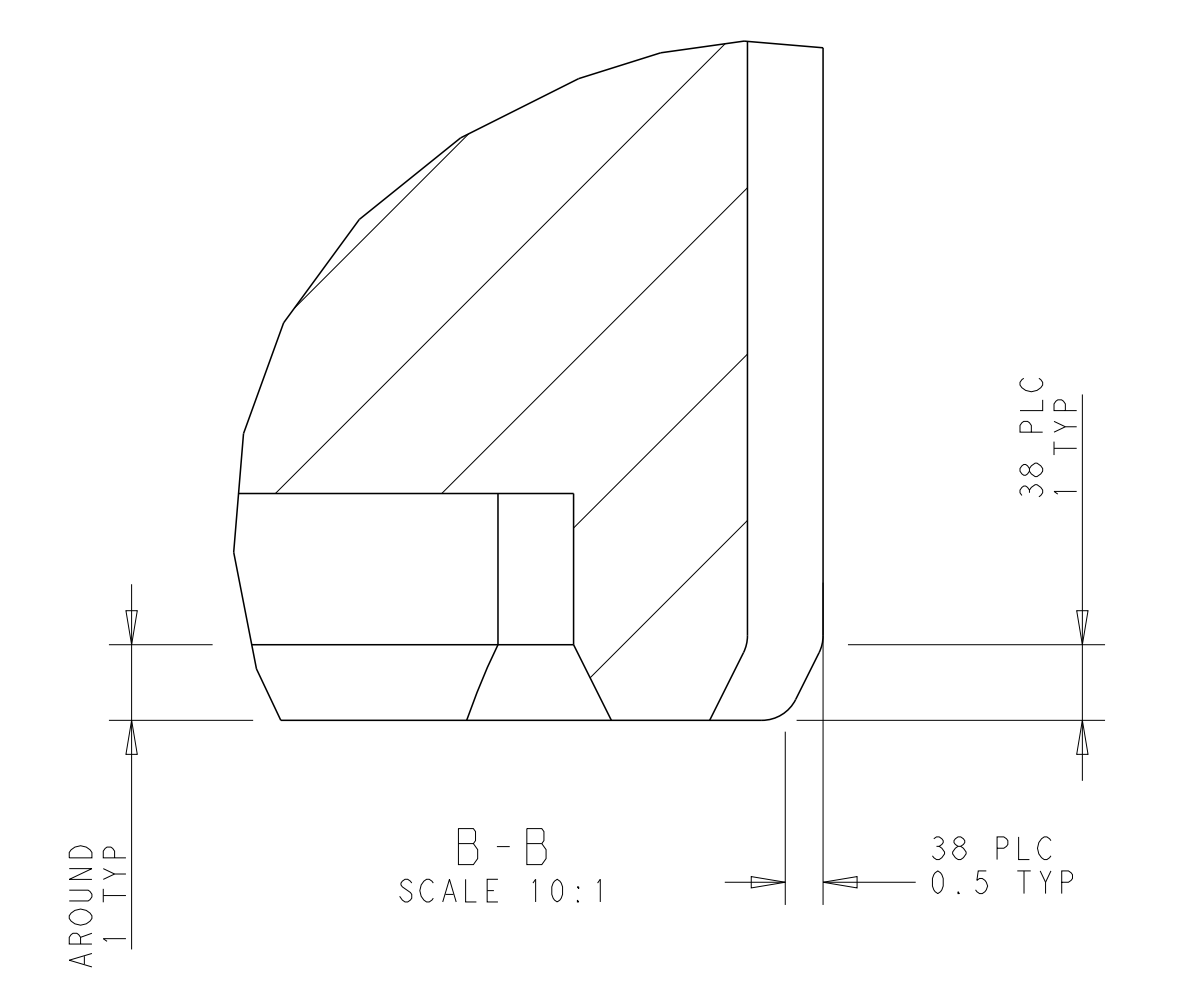
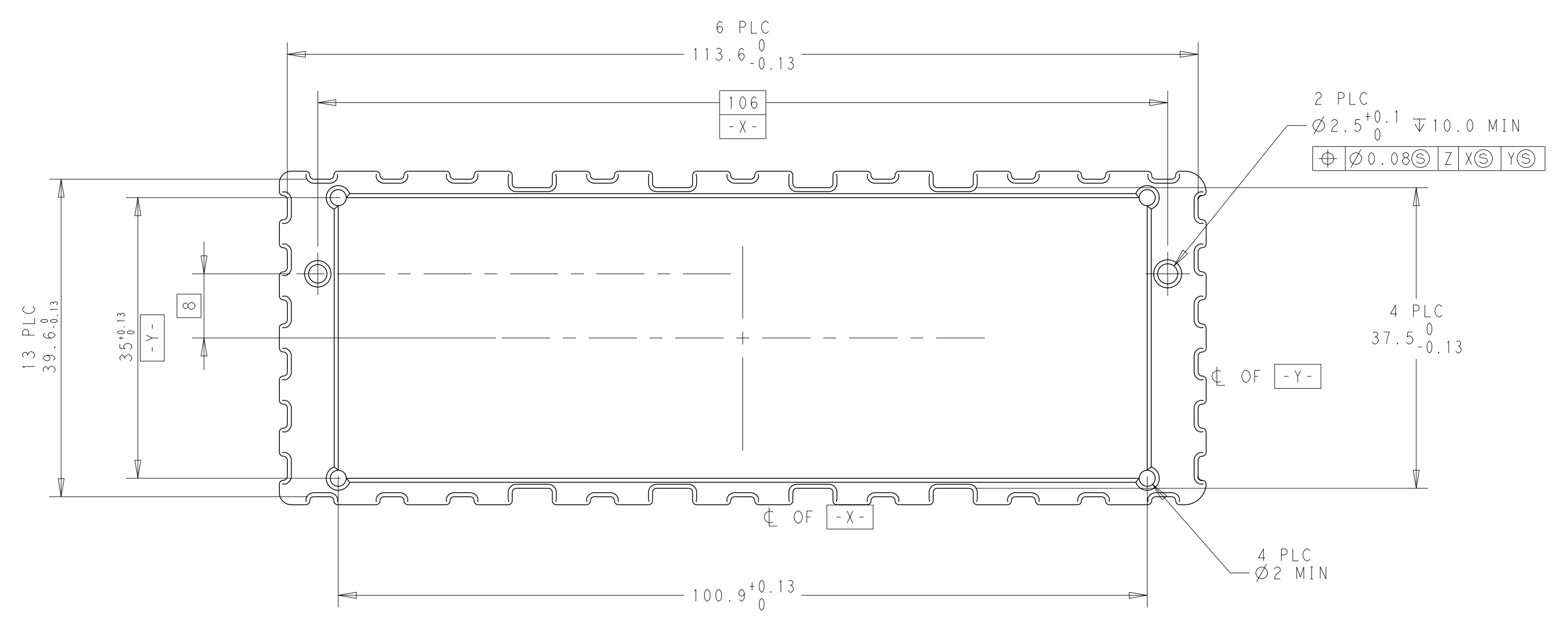
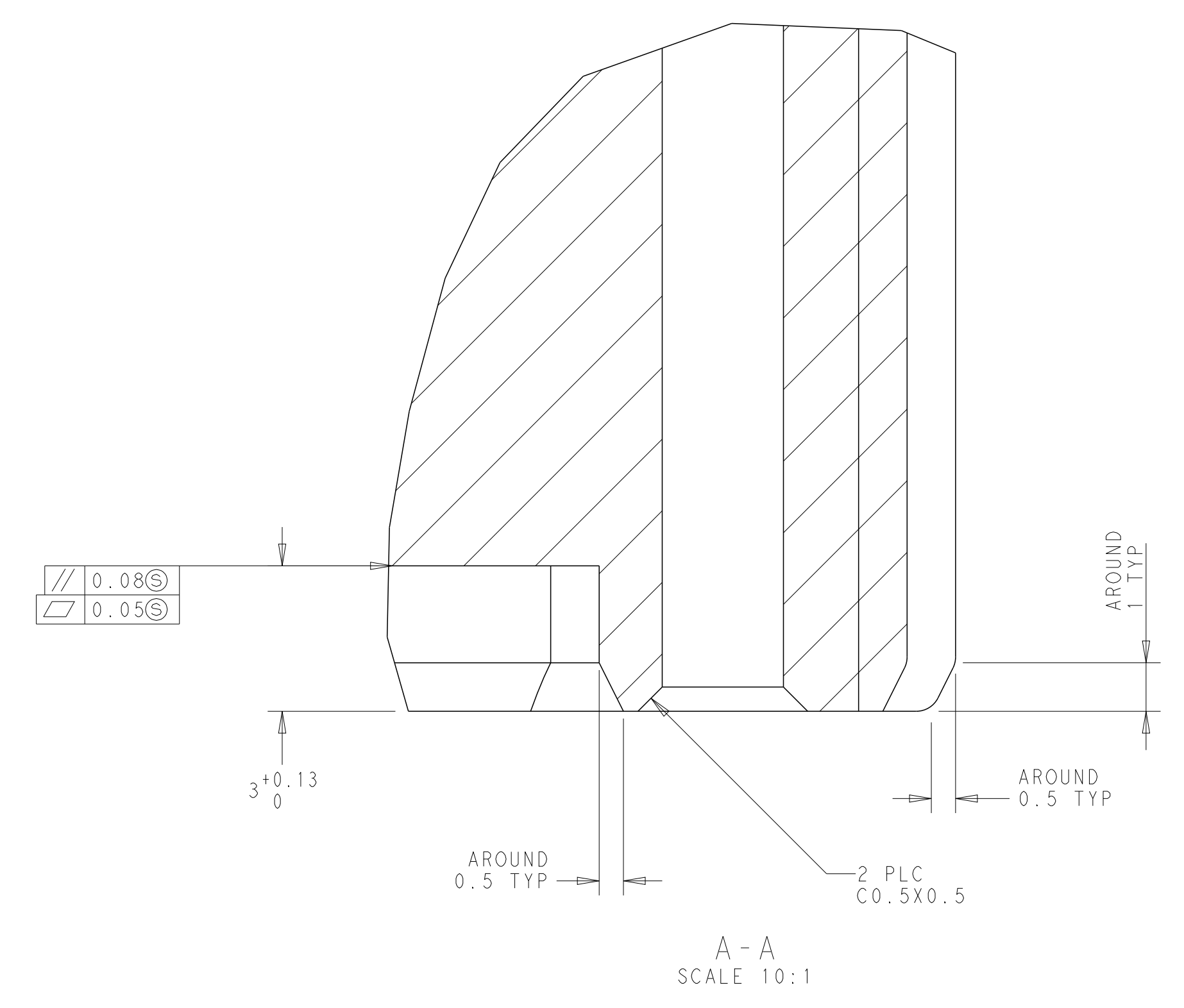
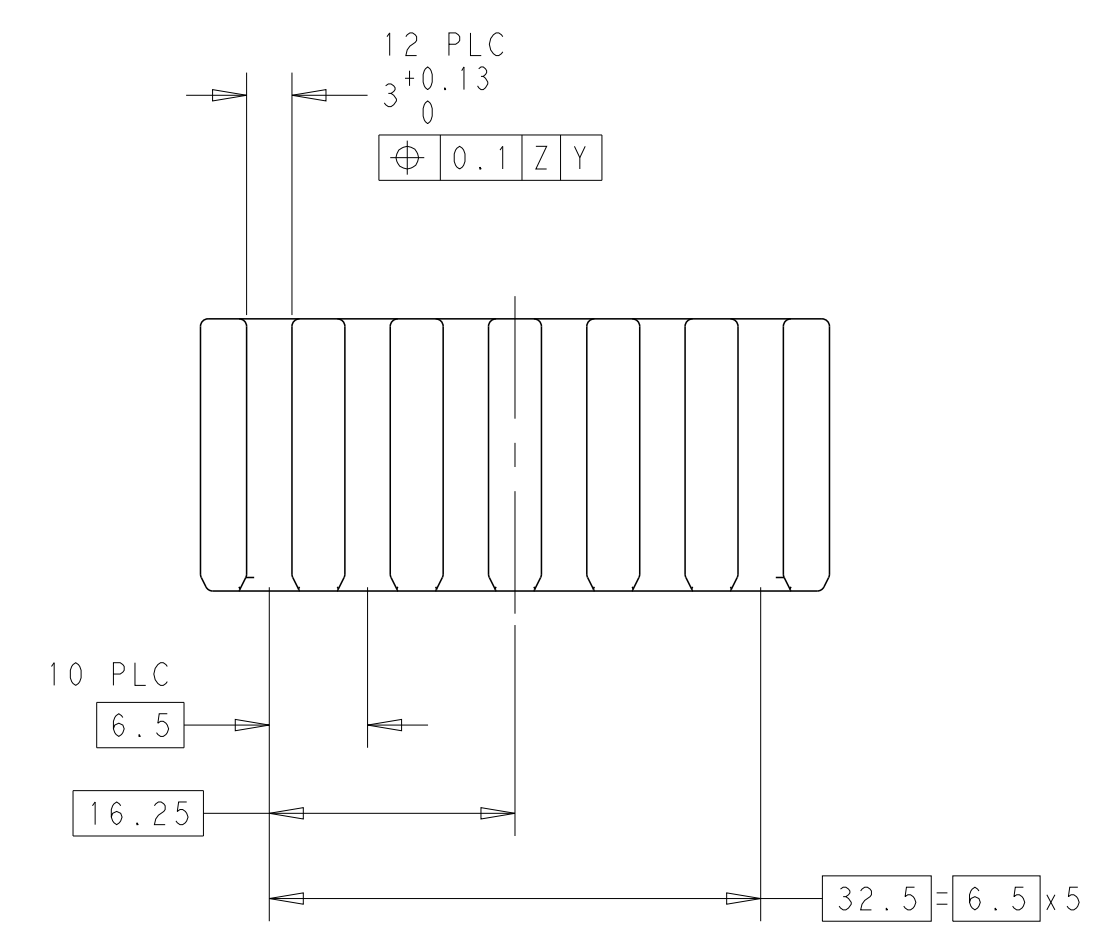
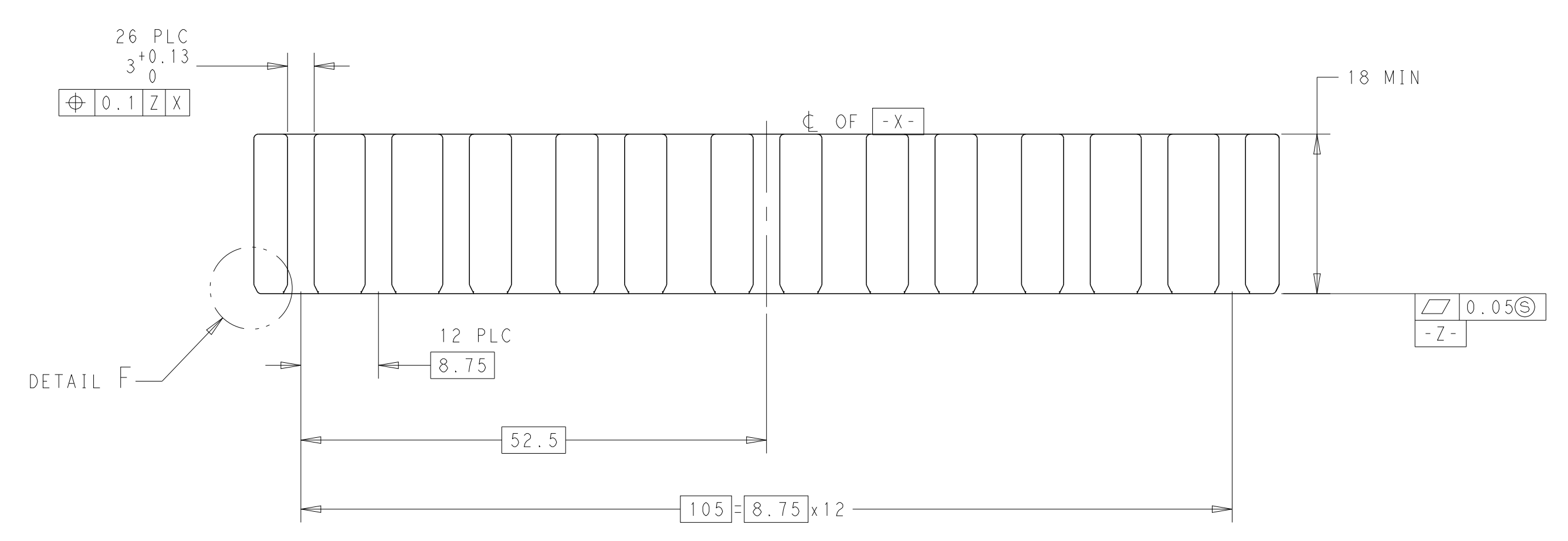
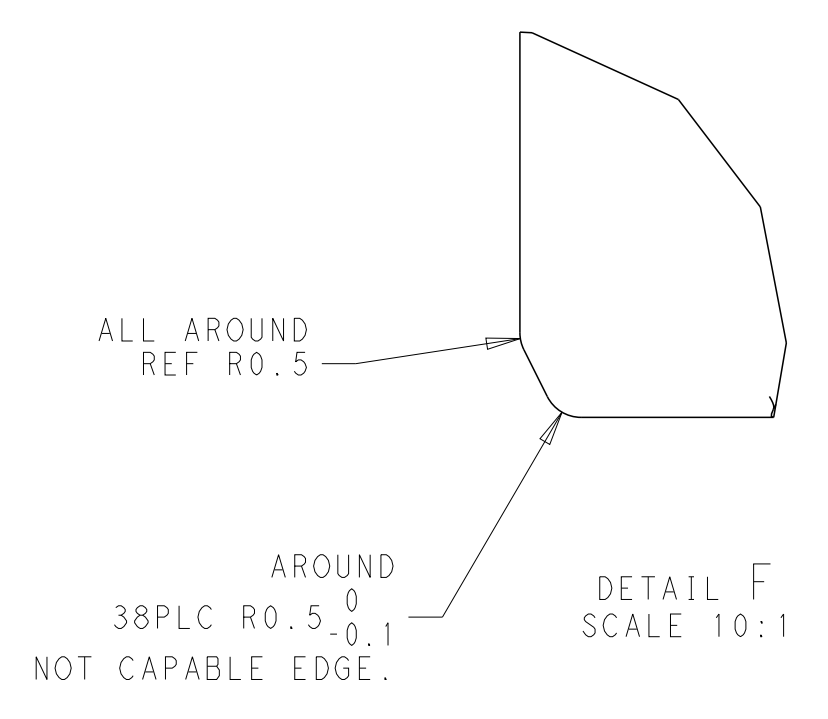
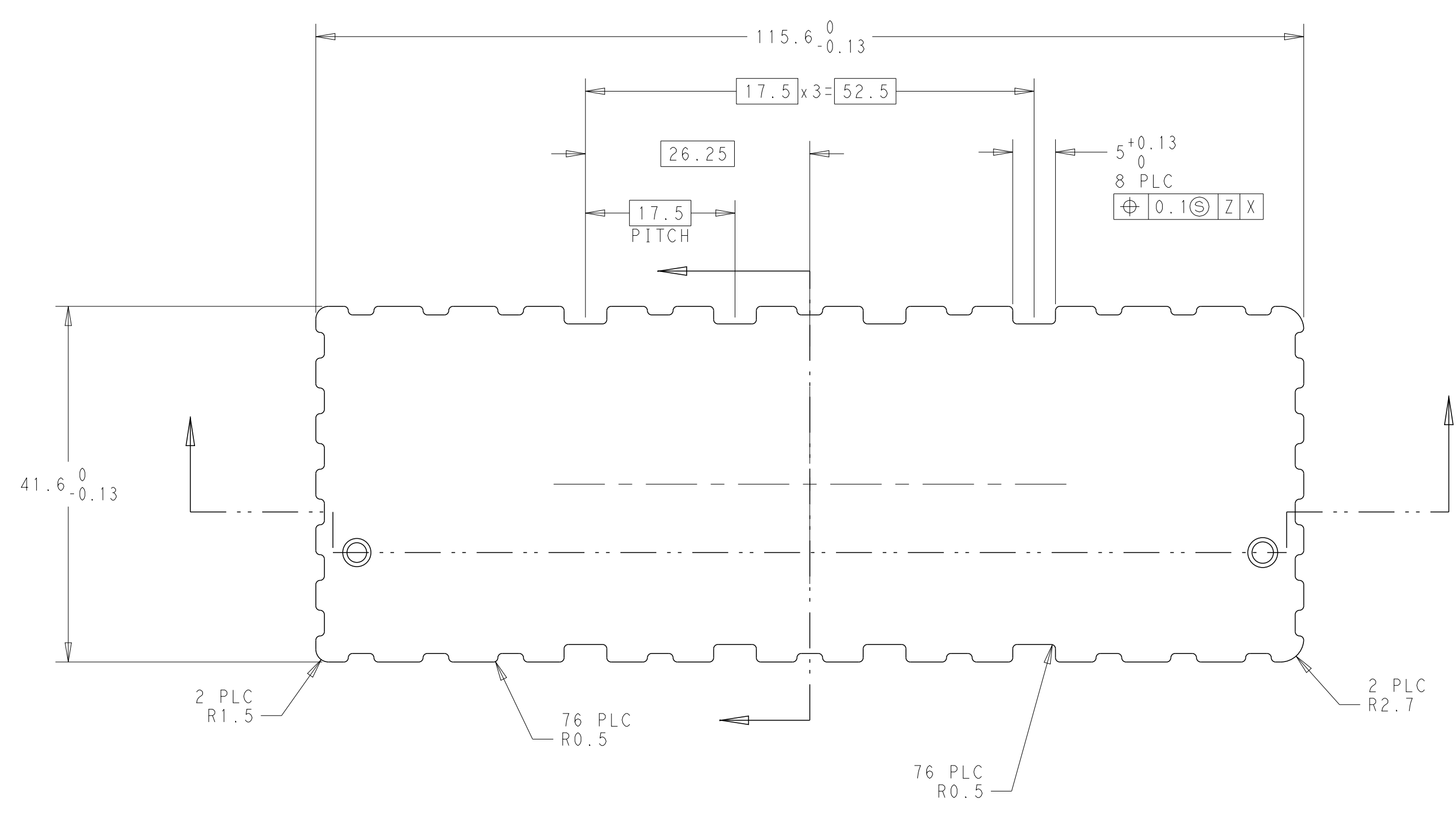


! IMPORTANT !  
 PLEASE CUSTOMIZE ACCORDING TO THE STATE OF THE PCB AND THE USE SITUATION.

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN T. SASAKI 11MAR2014	TE Connectivity
DIMENSIONS: mm		CHK M. KIMURA 11MAR2014	
TOLERANCES UNLESS OTHERWISE SPECIFIED: ± 0.3		APVD M. KIMURA 11MAR2014	NAME RECEPTACLE CONNECTOR 456P RECEPTACLE ASSEMBLY BEEHIVE I/O CONNECTOR SERIES
0-PLC ±0.3		PRODUCT SPEC	SIZE A1
1-PLC ±0.5		108-140047	CAGE CODE -
2-PLC ±0.13		APPLICATION SPEC	DRAWING NO C=2822650
3-PLC ±0.013		114-5518	RESTRICTED TO -
4-PLC ±0.001		WEIGHT -	SCALE 2:1
ANGLES ±1.0		CUSTOMER DRAWING	SHEET 5 of 7
FINISH SEE SHEET 5			REV H

**CONFIDENTIAL**

LOC	DIST	REVISIONS			
P	LTN	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN Y. SASAKI 11MAR2014	TE Connectivity
DIMENSIONS: mm		CHK M. KIMURA 11MAR2014	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. KIMURA 11MAR2014	NAME RECEPTACLE CONNECTOR 456P RECEPTACLE ASSEMBLY BEEHIVE I/O CONNECTOR SERIES
0-PLC	±0.3	PRODUCT SPEC	SIZE A1
1-PLC	±0.5	APPLICATION SPEC	CAGE CODE -
2-PLC	±0.13	114-5518	DRAWING NO C=2822650
3-PLC	±0.13	114-5518	RESTRICTED TO -
4-PLC	±0.001	114-5518	SCALE 2:1
ANGLES	±1.0	114-5518	SHEET 6 OF 7
FINISH	SEE SHEET 5	114-5518	REV H
MATERIAL	SEE SHEET 5	114-5518	CUSTOMER DRAWING





## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [I/O Connectors](#) category:*

*Click to view products by [TE Connectivity](#) manufacturer:*

Other Similar products are found below :

[571763P](#) [61-168618-12P](#) [72.250.1628.2](#) [72.250.2428.2](#) [74720-0505](#) [76.350.0729.0](#) [76871-1403](#) [MP-5T180MUNNA-005](#) [PCR-E36PM](#) [PCS-XES68MS+](#) [G38A71314B](#) [9776-18-6](#) [1571250010](#) [157-22500-3](#) [MS3471L14-19P L/C](#) [192991-0703](#) [91-644626-35P](#) [SM3100F14S-58S](#)  
[172501-6002](#) [FCN-260C008-A/L0](#) [FCN-260C024-AL0](#) [FCN-261Z008](#) [2000314-1](#) [200331-1](#) [PCR-E36FC+](#) [PCS-E28FS+](#) [PCS-XE26SLFD+](#)  
[PCS-XE26SLFDT+](#) [G730VID08BDC24](#) [HDMR-29-01-S-SM-TR](#) [HDRA-E68W1LFDTC-SL+](#) [HDR-E14MSG1+](#) [54182-0605](#) [38113800006](#)  
[DP3AR020WQ1R200](#) [Z4.102.0680.0](#) [500-1040](#) [500-1052](#) [500-1054](#) [ZP-4008-66L](#) [10-584459-12P](#) [SM3106F14S-7S-LC](#) [SM3106R18-18S](#)  
[U90B3054061110](#) [U65-E04-4020](#) [ZPF000000000097891](#) [557-262M2-06C](#) [60-042222-02S](#) [10099439-003C-TRLF](#) [226-0348-000](#)