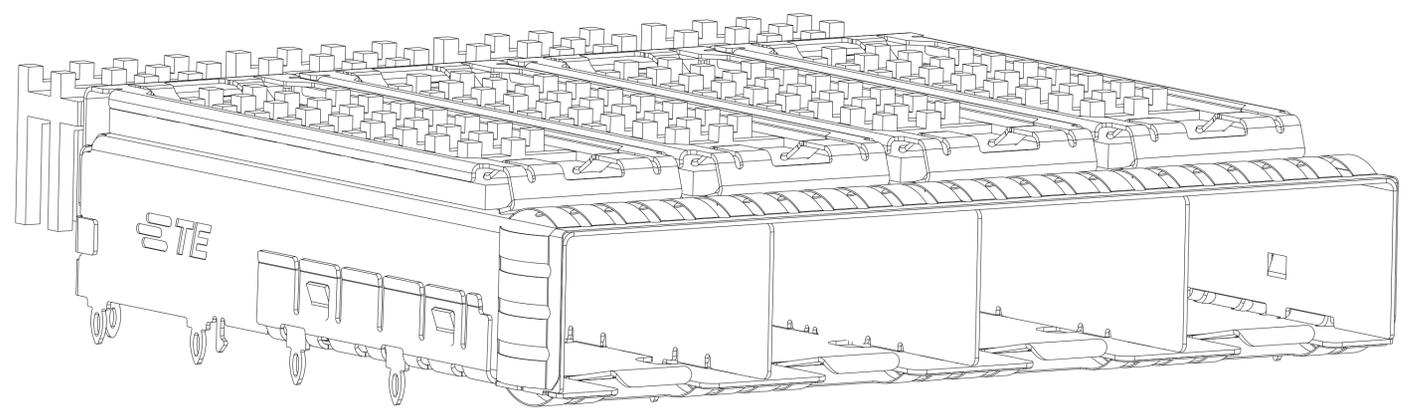
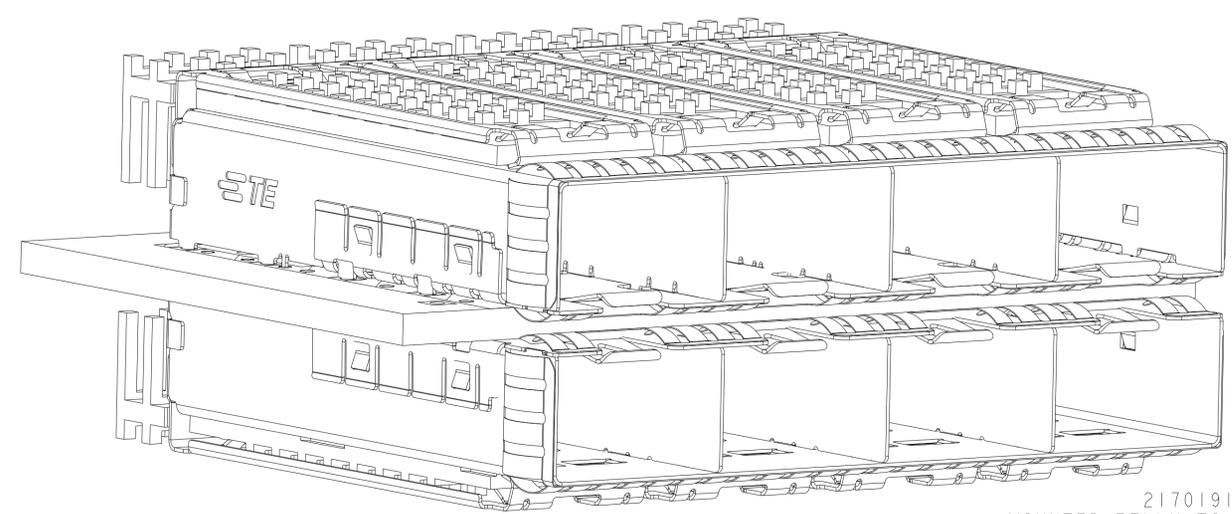
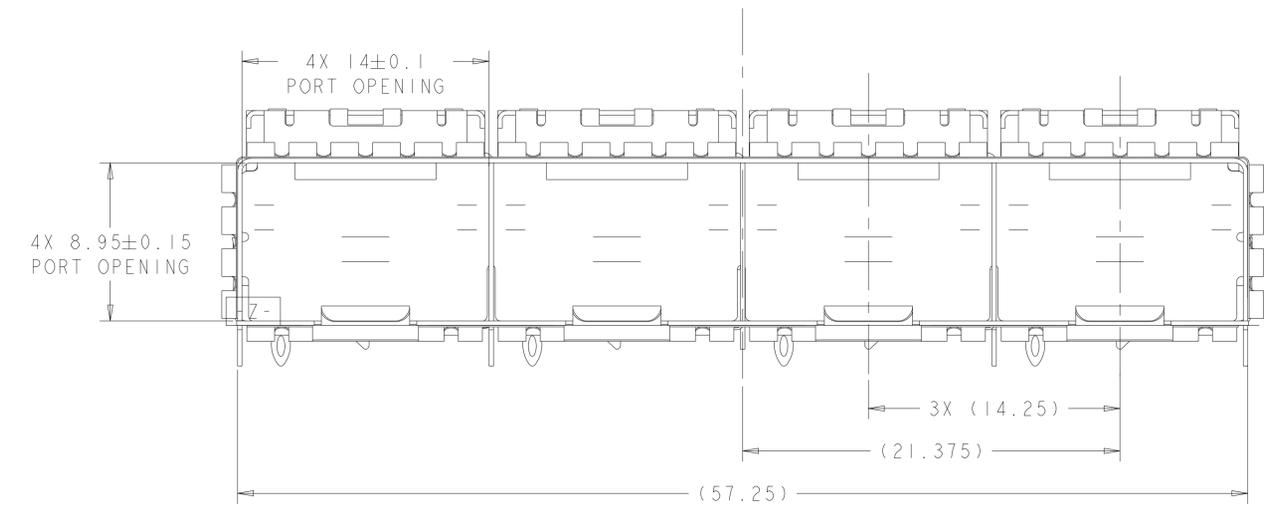
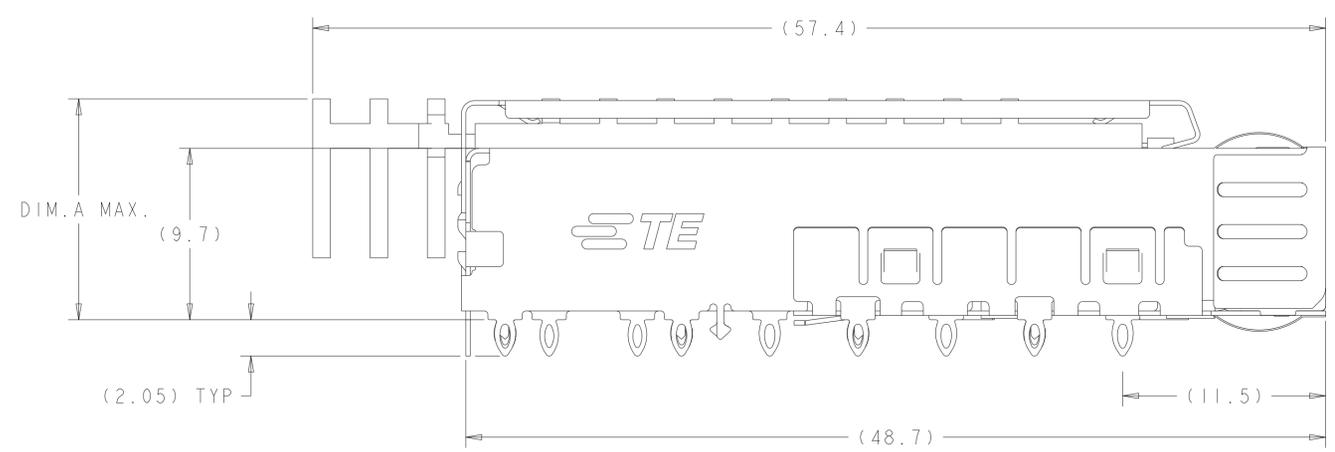


LOC		DIST		REVISIONS			
P	LYN	DESCRIPTION	DATE	OWN	APVD		
1		PRELIMINARY RELEASE	23NOV2011	TX	AC		
2		REVISE THE DRAWING	21DEC2011	TX	AC		
A		REVISED PER ECN-24-272345	15JUL2024	KH	SZ		



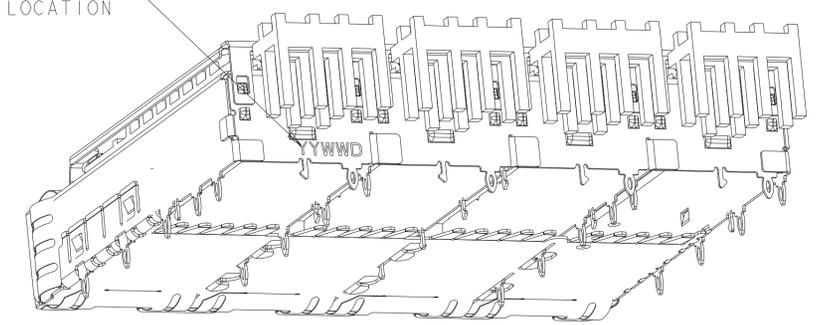
2170191-1  
FINISHED ASSEMBLY

- 1. MATERIAL:  
CAGE ASSEMBLY: 0.25mm THICK NICKEL SILVER ALLOY  
HEATSINK CLIP: STAINLESS STEEL  
HEATSINK: ALUMINUM
- 2. FINISH:  
SPRINGS: MINIMUM OF 0.8um TIN PLATE OVER A MINIMUM OF 0.8um NICKEL UNDERPLATE.  
NON-PLATED EDGES PERMISSIBLE.  
HEATSINK: ELECTROLESS NICKEL  
HEATSINK CLIP: PASSIVATE
- 3. PADS AND VIAS CHASSIS GROUND.
- 4. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- 5. MATES WITH SFP MSA COMPLIANT TRANSCEIVERS.
- 6. INTERPRETATION OF DATUM REFERENCE FRAME IN ACCORDANCE WITH SECT 4.4.1.1 OF ASME Y14.5M-1994.
- 7. REFERENCE APPLICATION SPEC. 114-13120, HOLE A, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 8. REFERENCE APPLICATION SPEC. 114-13120, HOLE B, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 9. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 14.25mm.
- 10. MINIMUM PC BOARD THICKNESS:  
SINGLE SIDED = 1.50  
DOUBLE SIDED = 2.25
- 11. CERTAIN MATING TRANSCEIVERS MAY REQUIRE ADDITIONAL PCB THICKNESS THAT WOULD BE DETERMINED BY THE CUSTOMER.
- 12. PRODUCT COMPLIES WITH SPECIFICATION SFF-8433 IMPROVED PLUGGABLE FROM FACTOR FOR SFP+ GANGED CAGES.
- 13. DIMENSION APPLIES PRIOR TO INSERTION OF SFP MODULE



2170191-1  
MOUNTED BELLY TO BELLY ON PCB  
SCALE 4:1

APPROX. DATE CODE LOCATION



SCALE 3:1

20.2	HEAT SINK W/ THE FIRST ROW PIN	2170191-2
13	HEAT SINK W/O THE FIRST ROW PIN	2170191-1
A MAX	DESCRIPTION	PART NUMBER

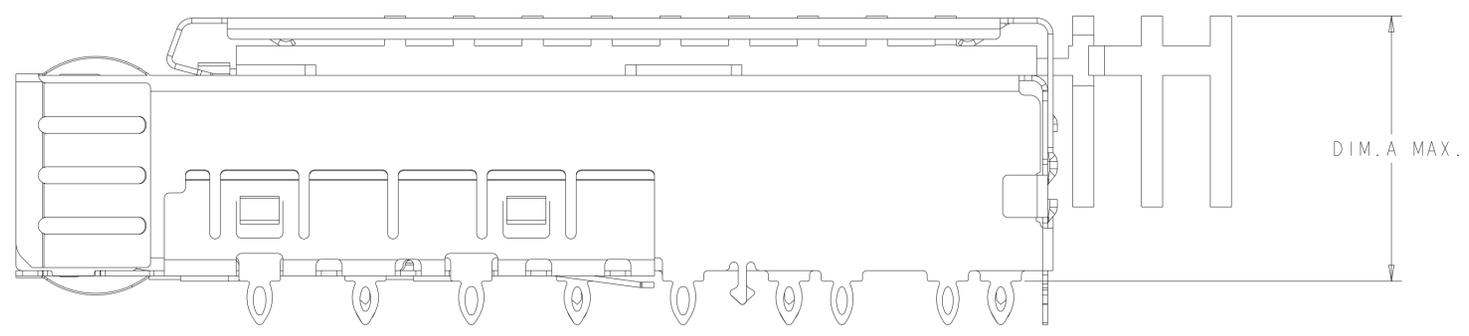
THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	OWN: TIM XUE 23NOV2011	TE Connectivity
mm	0 PLC ±0.1	CHK: ALEX CAI 23NOV2011	
	1 PLC ±0.1	APVD: ALEX CAI 23NOV2011	
	2 PLC ±0.1	PRODUCT SPEC	
	3 PLC ±0.1	108-2364	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
	4 PLC ±0.1	APPLICATION SPEC	SIZE: CAGE CODE DRAWING NO
	ANGLES ±1°	114-13120	RESTRICTED TO
MATERIAL:	FINISH:	WEIGHT:	A100779C=2170191
			CUSTOMER DRAWING

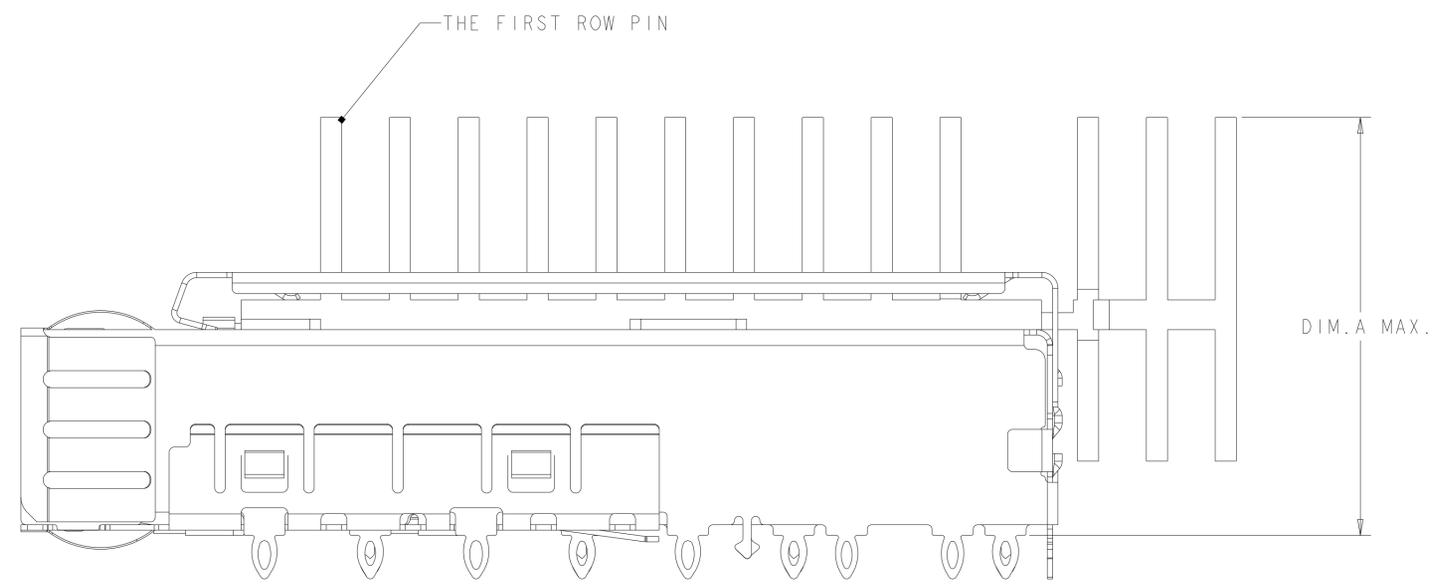
SCALE 5:1 SHEET 1 OF 5 REV A

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20  
 © COPYRIGHT 20 BY - ALL RIGHTS RESERVED.

LOC		DIST		REVISIONS			
GP	00	P	LYR	DESCRIPTION	DATE	DMN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



2170191-1 AS SHOWN  
 HEAT SINK W/O THE FIRST ROW PIN



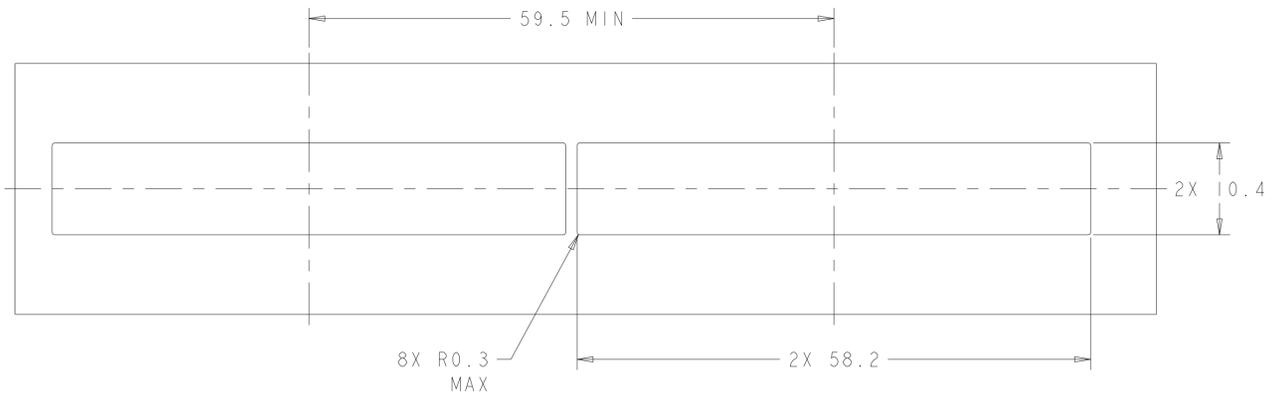
2170191-2 AS SHOWN

THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN	TIM XUE	23NOV2011	
		CHK	ALEX CAI	23NOV2011	
DIMENSIONS:		APVD	ALEX CAI	23NOV2011	<b>NAME</b> SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
mm		PRODUCT SPEC		108-2364	
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1° FINISH		APPLICATION SPEC		114-13120	
MATERIAL		WEIGHT		-	
		CUSTOMER DRAWING		SCALE	5:1
		SIZE		A100779C=2170191	RESTRICTED TO
		SHEET		2	OF
		REV		A	

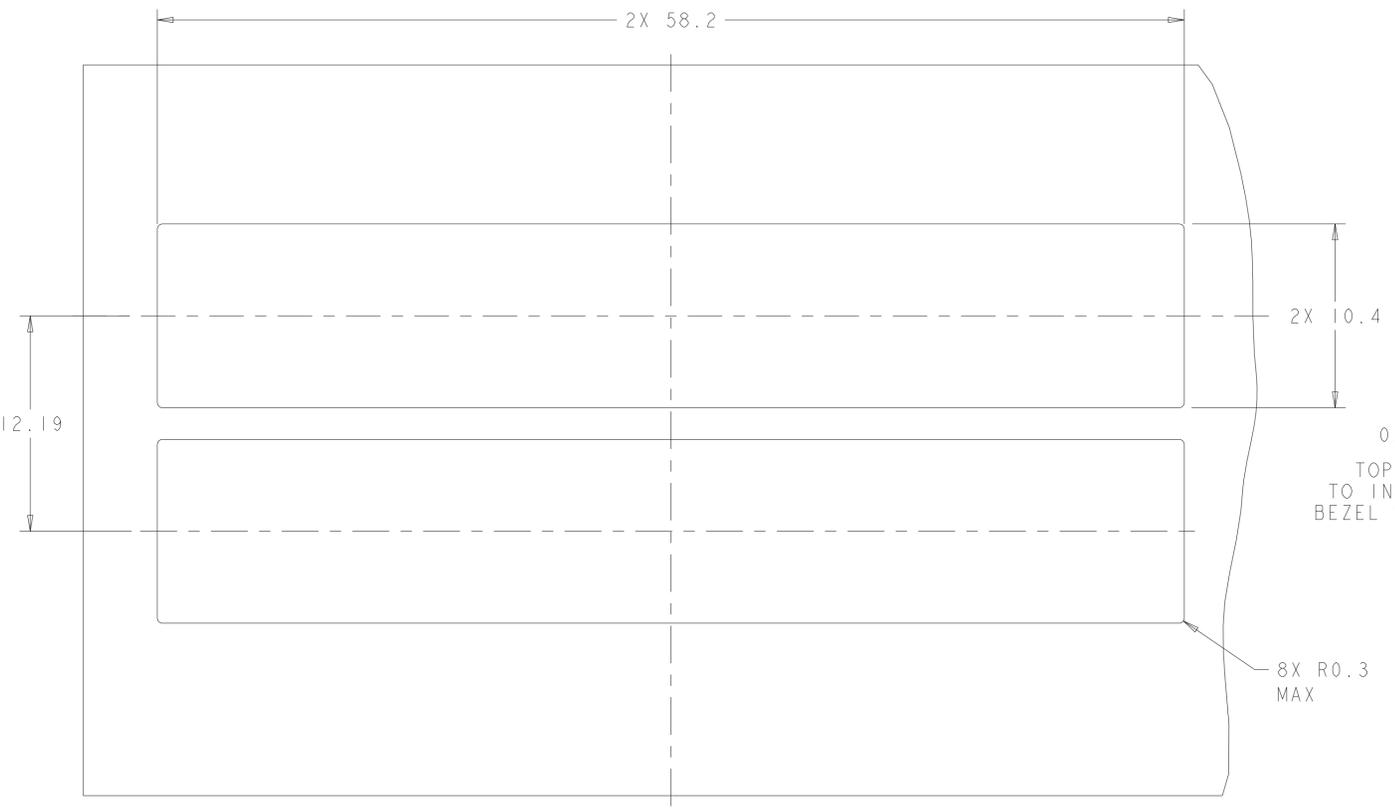
LOC	DIST	REV	DATE	BY	APPV
GP	00				

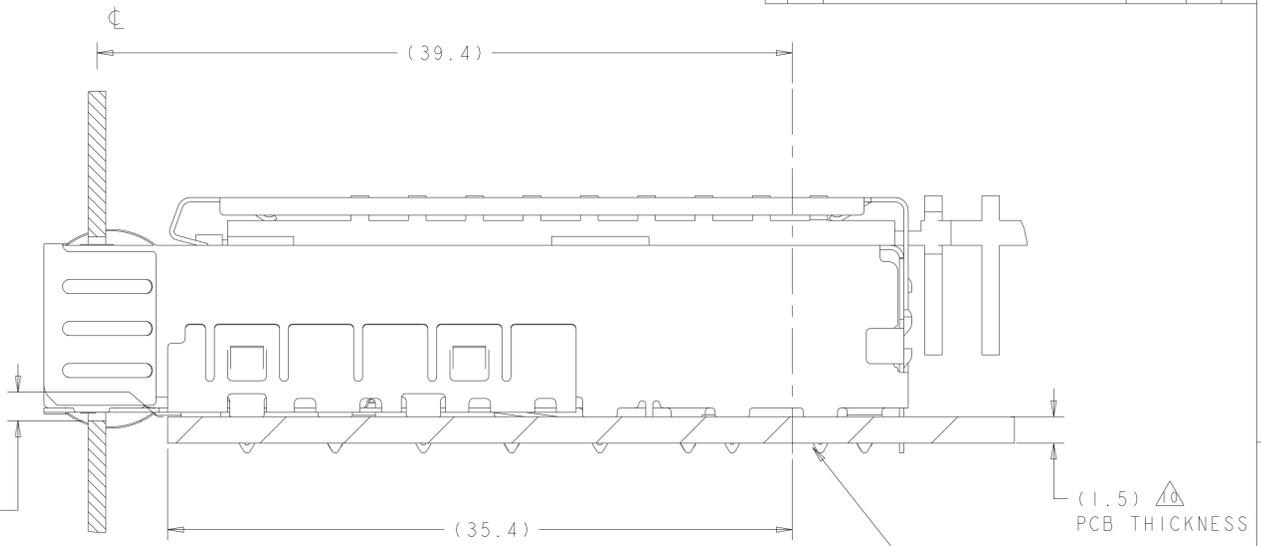
REVISIONS			
REV	DATE	BY	APPV
-	-	-	-
SEE SHEET 1			



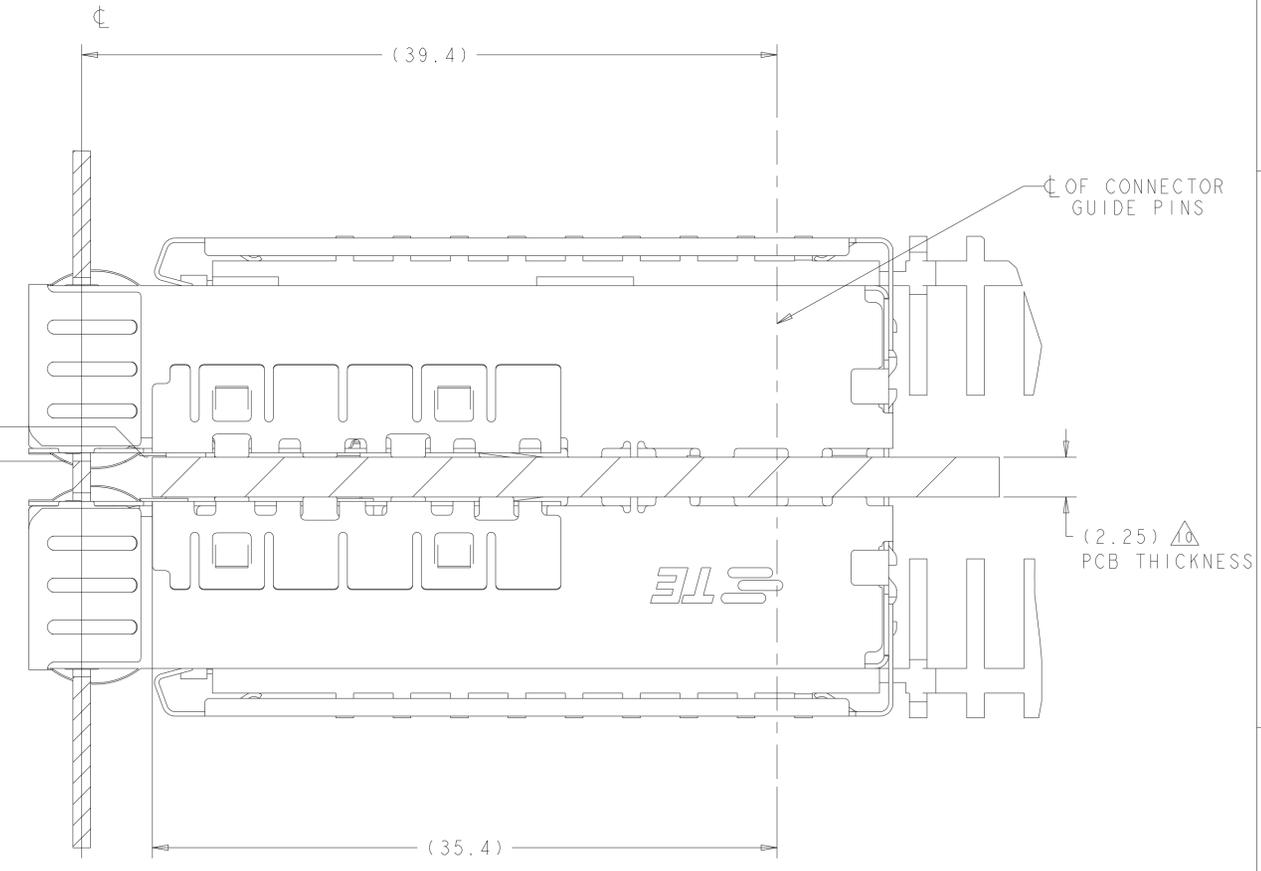
RECOMMENDED BEZEL CUT-OUT  
SINGLE SIDED APPLICATIONS  
SCALE 5:2



RECOMMENDED BEZEL CUT-OUT  
BELLY TO BELLY APPLICATIONS



2149730  
MOUNTED ON PC BOARD  
SHOWN THRU RECOMMENDED BEZEL



2149730  
MOUNTED BELLY TO BELLY ON PC BOARD  
SHOWN THRU RECOMMENDED BEZEL

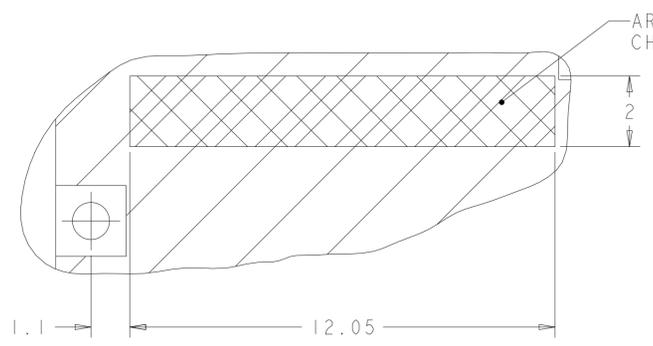
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: TIM XUE 23NOV2011	 TE Connectivity
DIMENSIONS:		CHK: ALEX CAI 23NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: ALEX CAI 23NOV2011	
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1° FINISH		NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120 SIZE: A1 CAGE CODE: 00779 DRAWING NO: 2170191 WEIGHT: - CUSTOMER DRAWING	
MATERIAL:		RESTRICTED TO:	SCALE: 5:1
			SHEET 3 OF 5
			REV A



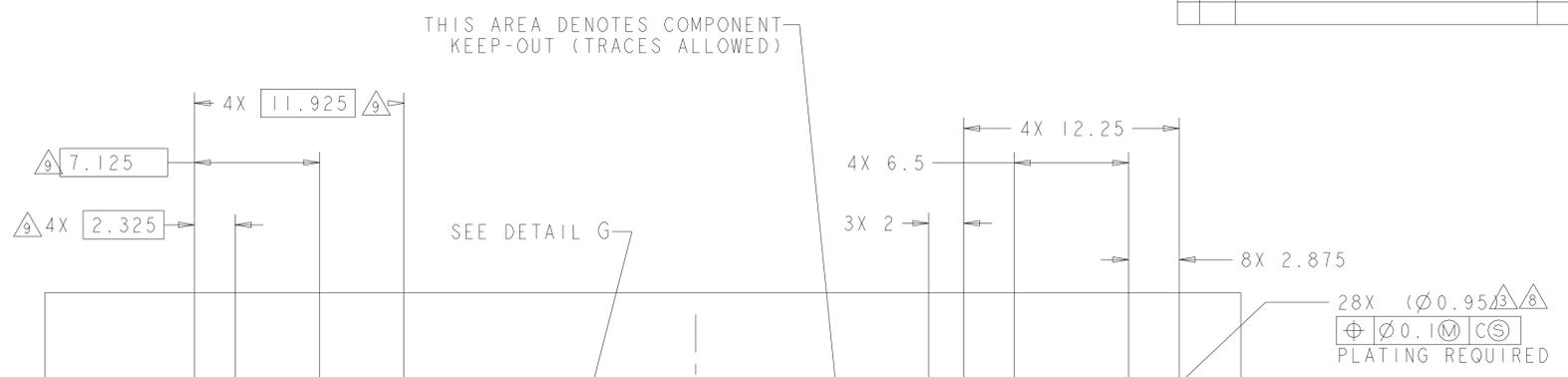
LOC	DIST	REV	DATE	BY	APPV
GP	00				

REVISIONS		
NO.	DESCRIPTION	DATE
1	SEE SHEET 1	

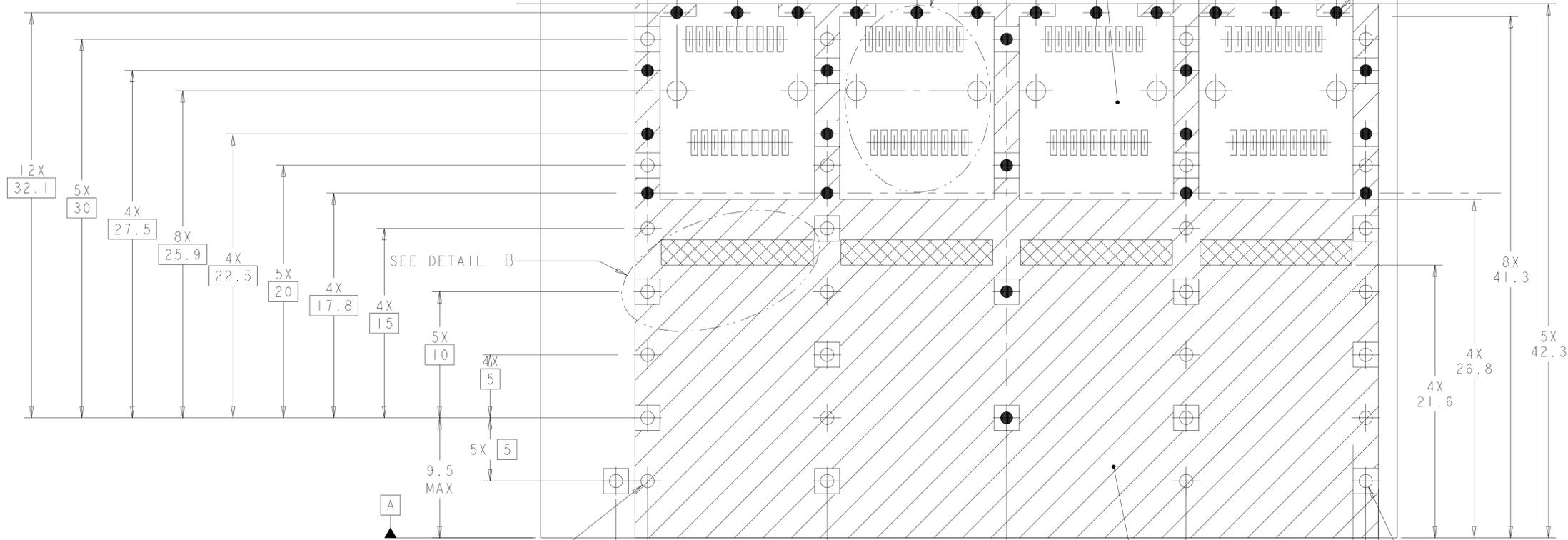


DETAIL B  
4X INDIVIDUALLY  
SCALE 10:1



THIS AREA DENOTES COMPONENT  
KEEP-OUT (TRACES ALLOWED)

28X (Ø0.95)  $\Delta$   $\Delta$   
Ø0.1 (M) (C) (S)  
PLATING REQUIRED

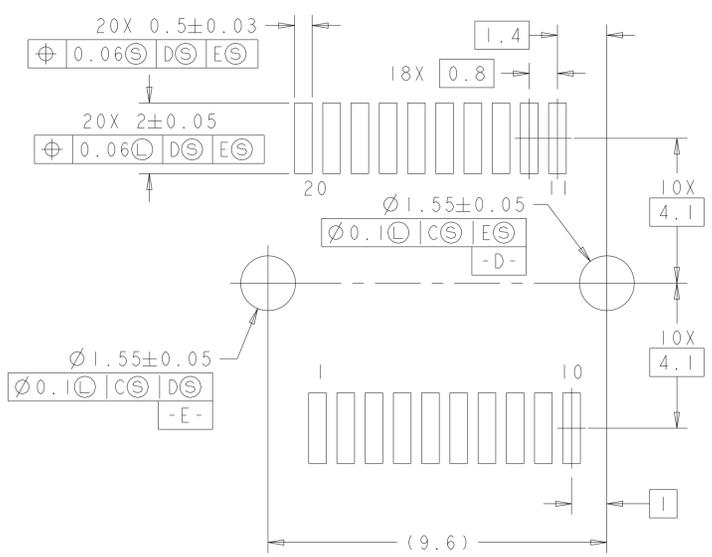


$\Delta$   $\Delta$  (Ø1.05)  
Ø0.1 (M) (A) (B)  
PLATING REQUIRED  
-C-

28X (Ø1.05)  $\Delta$   $\Delta$   
Ø0.1 (M) (C) (S)  
PLATING REQUIRED

CROSS-HATCHED AREA DENOTES  
COMPONENT AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

RECOMMENDED PCB CONFIGURATION  
WITH KEEP-OUT AREAS  
BELLY TO BELLY APPLICATIONS  
SCALE 5:1  $\Delta$



DETAIL G  
RECOMMENDED PT CONNECTOR LAYOUT  
8X INDIVIDUALLY  
SCALE 10:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: TIM XUE 23NOV2011	TE Connectivity
DIMENSIONS: mm		CHK: ALEX CAI 23NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEX CAI 23NOV2011	
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120	
MATERIAL: $\Delta$	FINISH: $\Delta$	WEIGHT: -	SIZE: A1 CAGE CODE: 00779 DRAWING NO: C=2170191 CUSTOMER DRAWING
SCALE: 5:1			SHEET: 5 OF 5 REV: A