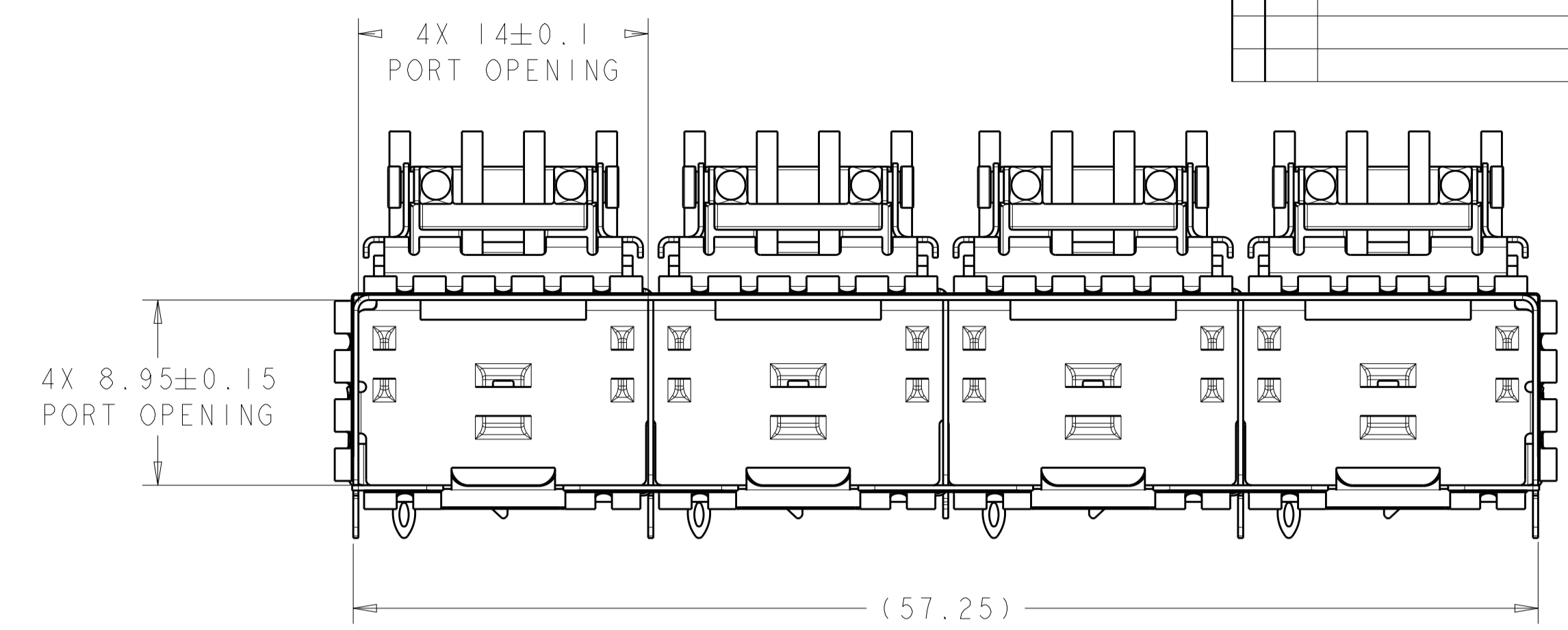
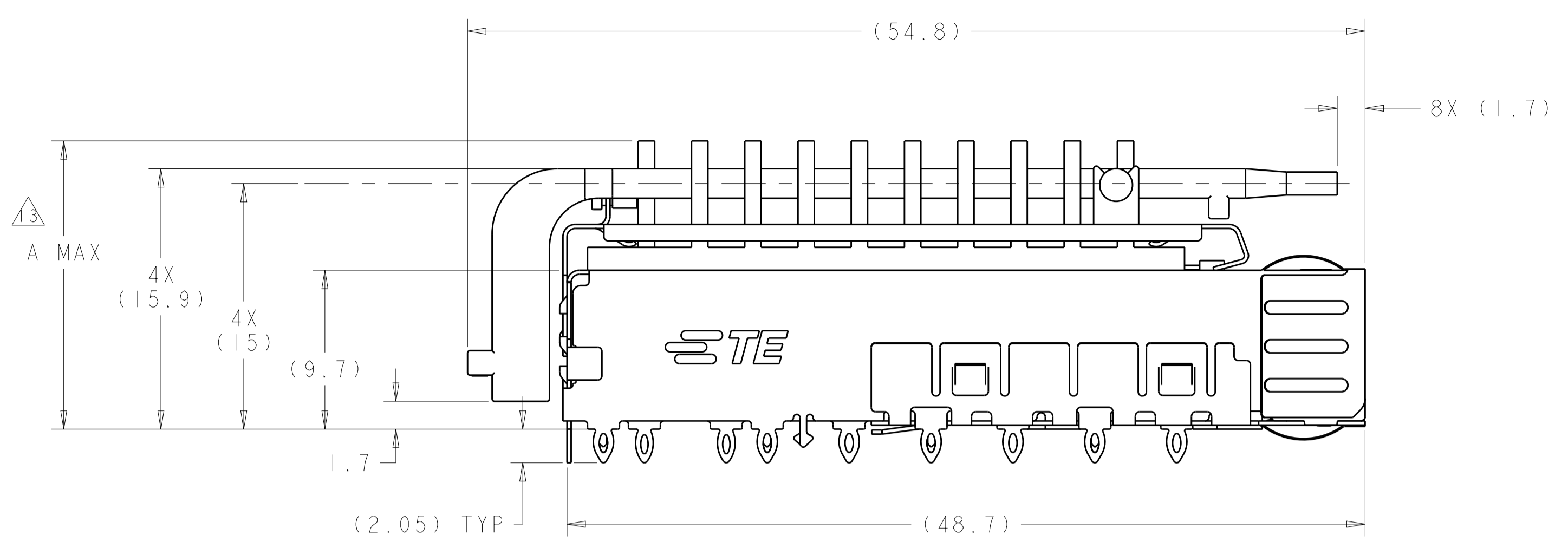
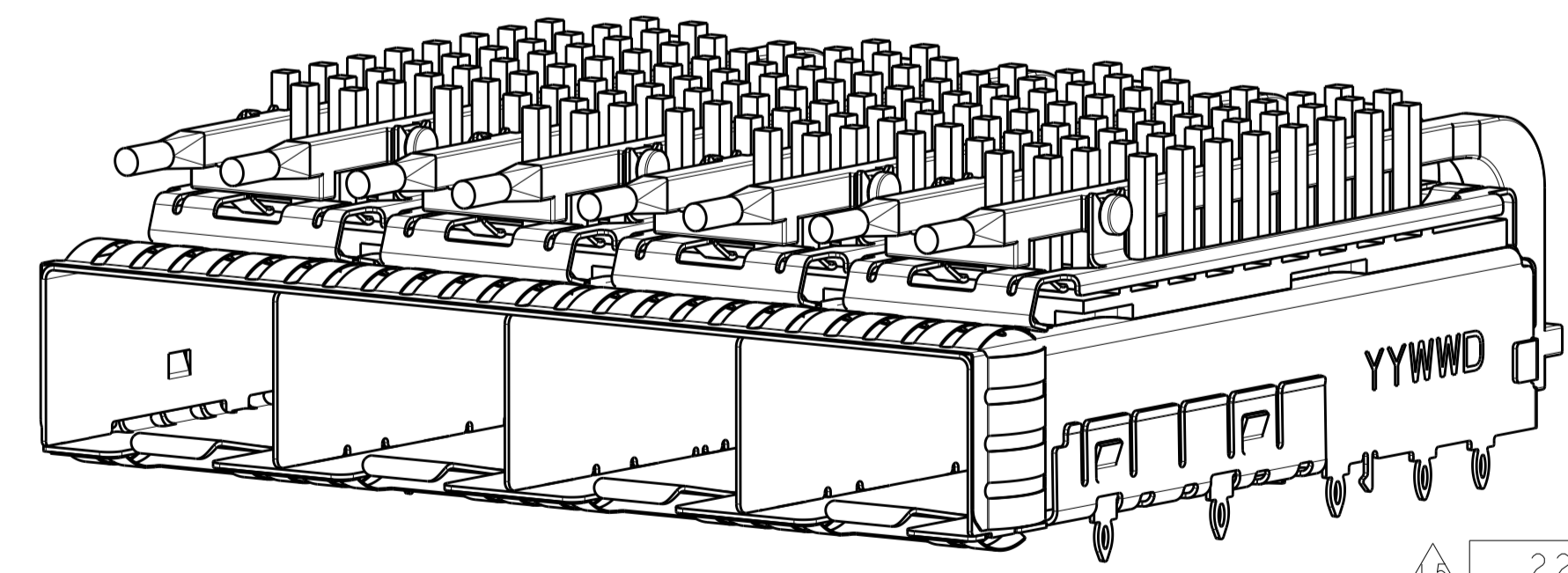
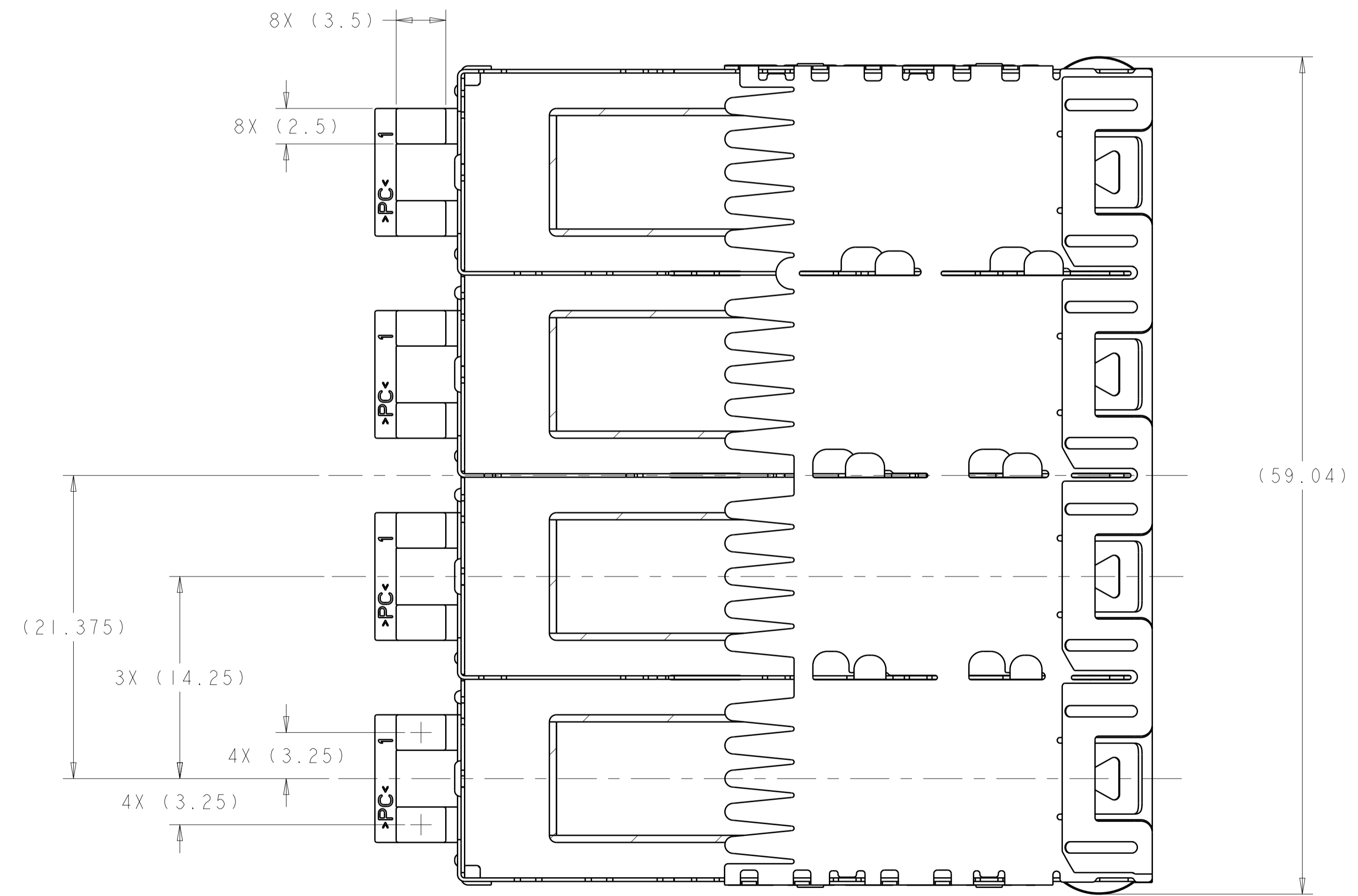


LOC	DIST	REVISIONS			
P	LTN	DESCRIPTION	DATE	DMN	APVD
GP	00	A	RELEASED PER ECO-12-013192	180CT2012	BMM MRS



- 1. MATERIAL:
 CAGE ASSEMBLY: 0.25mm THICK NICKEL SILVER ALLOY
 HEATSINK/LIGHTPIPE CLIP: STAINLESS STEEL
 LIGHT PIPE: POLYCARBONATE, CLEAR
 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/LIGHTPIPE 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 = 1.50mm
 DOUBLE SIDED = 2.25mm
- 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 FORM FACTOR FOR SFP+ GANGED CAGES.
- 13. DIMENSION APPLIES PRIOR TO INSERTION OF SFP MODULE
- 14. HEATSINK, HEATSINK CLIP, AND LIGHTPIPE SHIPPED UNASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY TO BE PRESSED INTO PCB PRIOR TO ATTACHING HEATSINK, HEATSINK CLIP, AND LIGHTPIPE TO THE CAGE ASSEMBLY.
- 15. PACKAGED AS A COMPLETE ASSEMBLY.



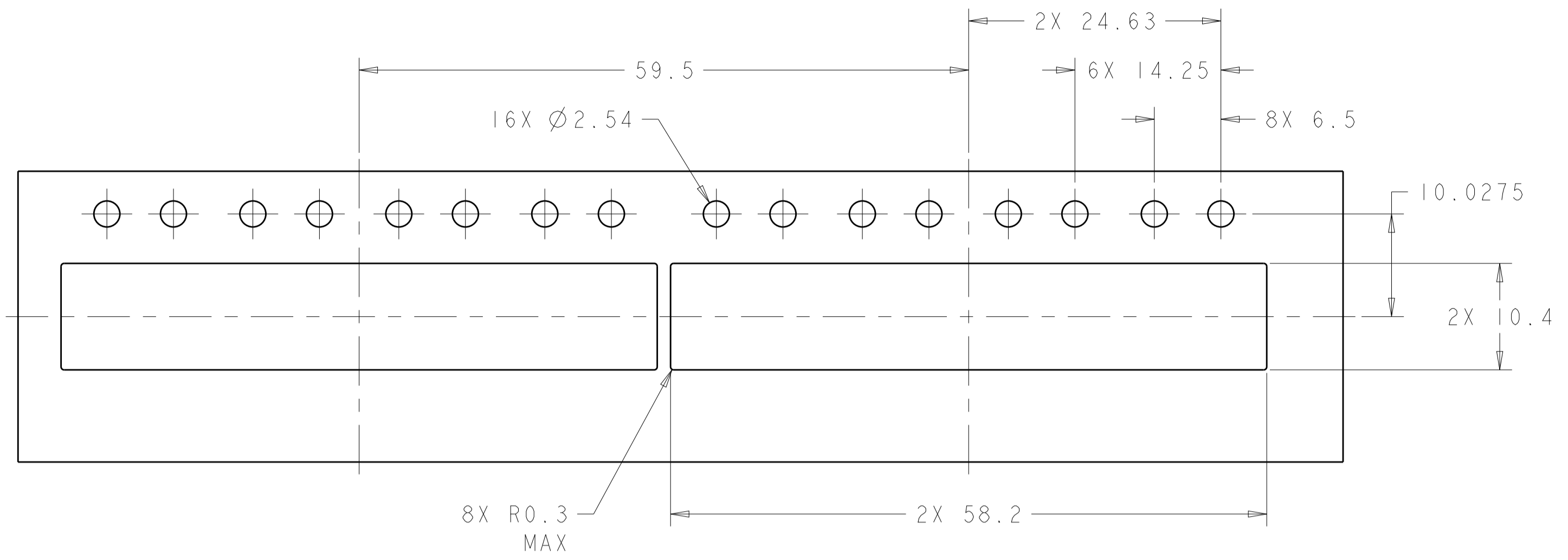
2198234
 FINISHED ASSEMBLY
 SCALE 3:1

22.5	NETWORKING, TALL	2198234-4
18.1	NETWORKING, SHORT	2198234-3
15.5	SAN	2198234-2
13.2	PCI	2198234-1
A MAX	APPLICATION	PART NUMBER

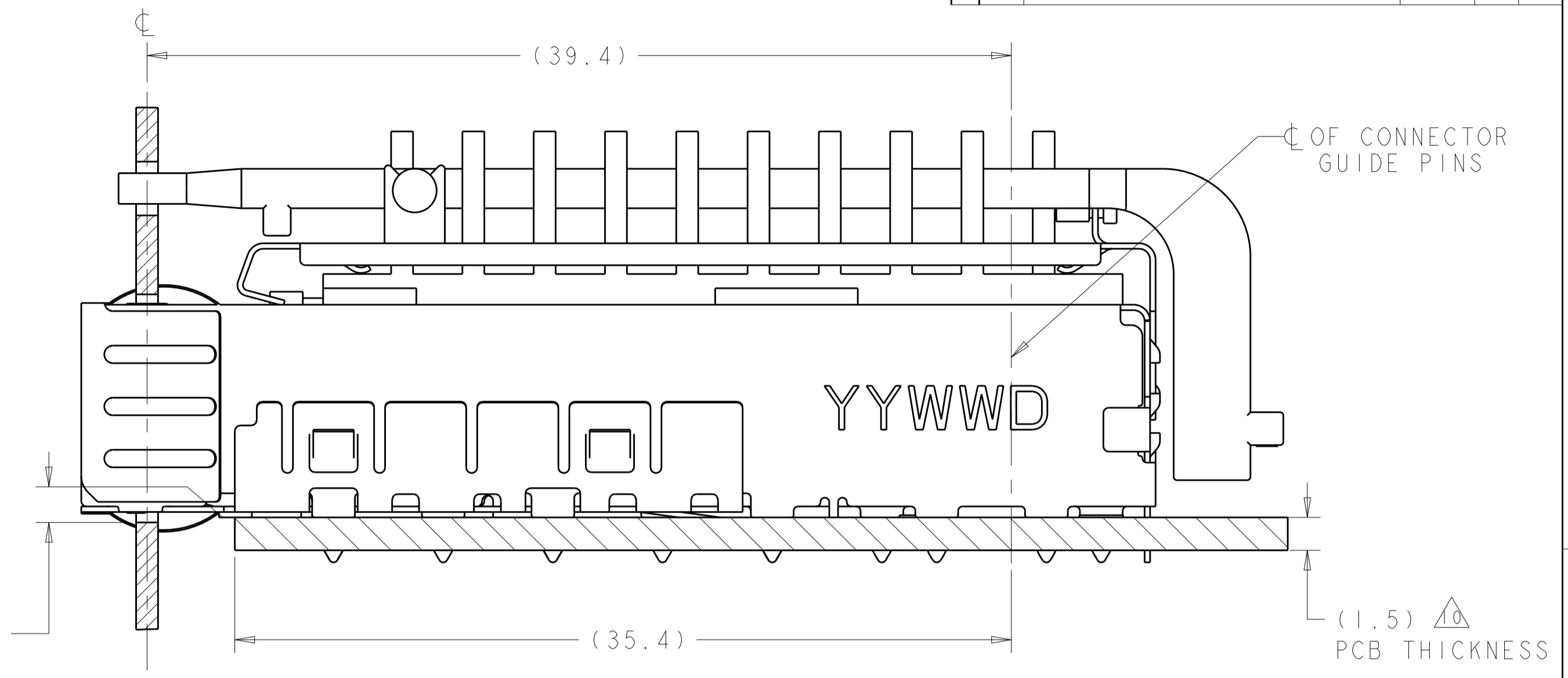
THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN B. MATTHEWS 15NOV2011	TE Connectivity NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK AND LIGHTPIPE
DIMENSIONS: mm		CHK M. SCHMITT 15NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. SCHMITT 15NOV2011	PRODUCT SPEC 108-2364
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		APPLICATION SPEC 114-13120	SIZE A1
MATERIAL		WEIGHT	RESTRICTED TO
FINISH		Customer Drawing	SCALE 4:1 SHEET 1 OF 4 REV A1

LOC	DIST	REV	DATE	BY	APPV
GP	00				

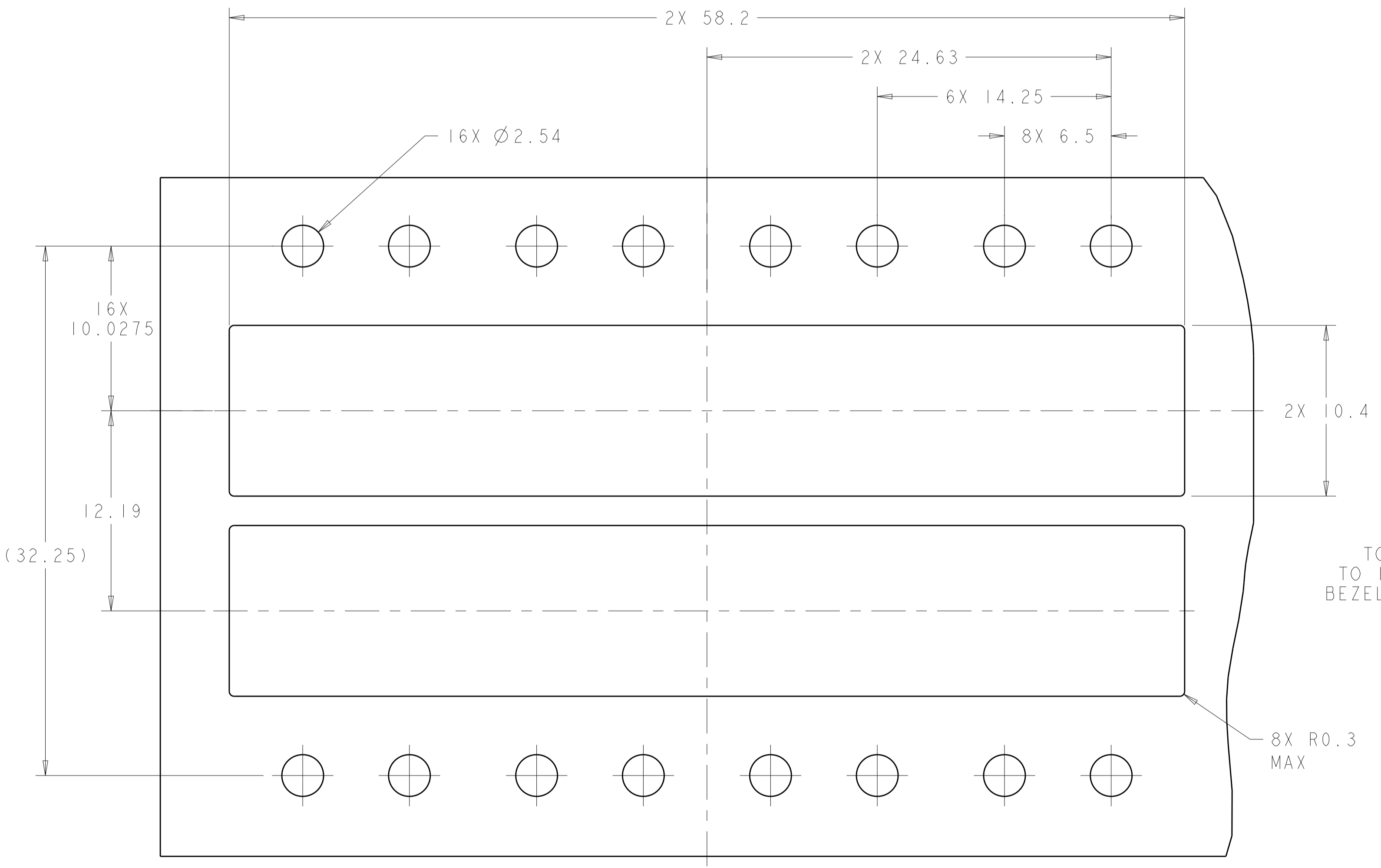
REVISIONS		DATE	BY	APPV
1	SEE SHEET 1			



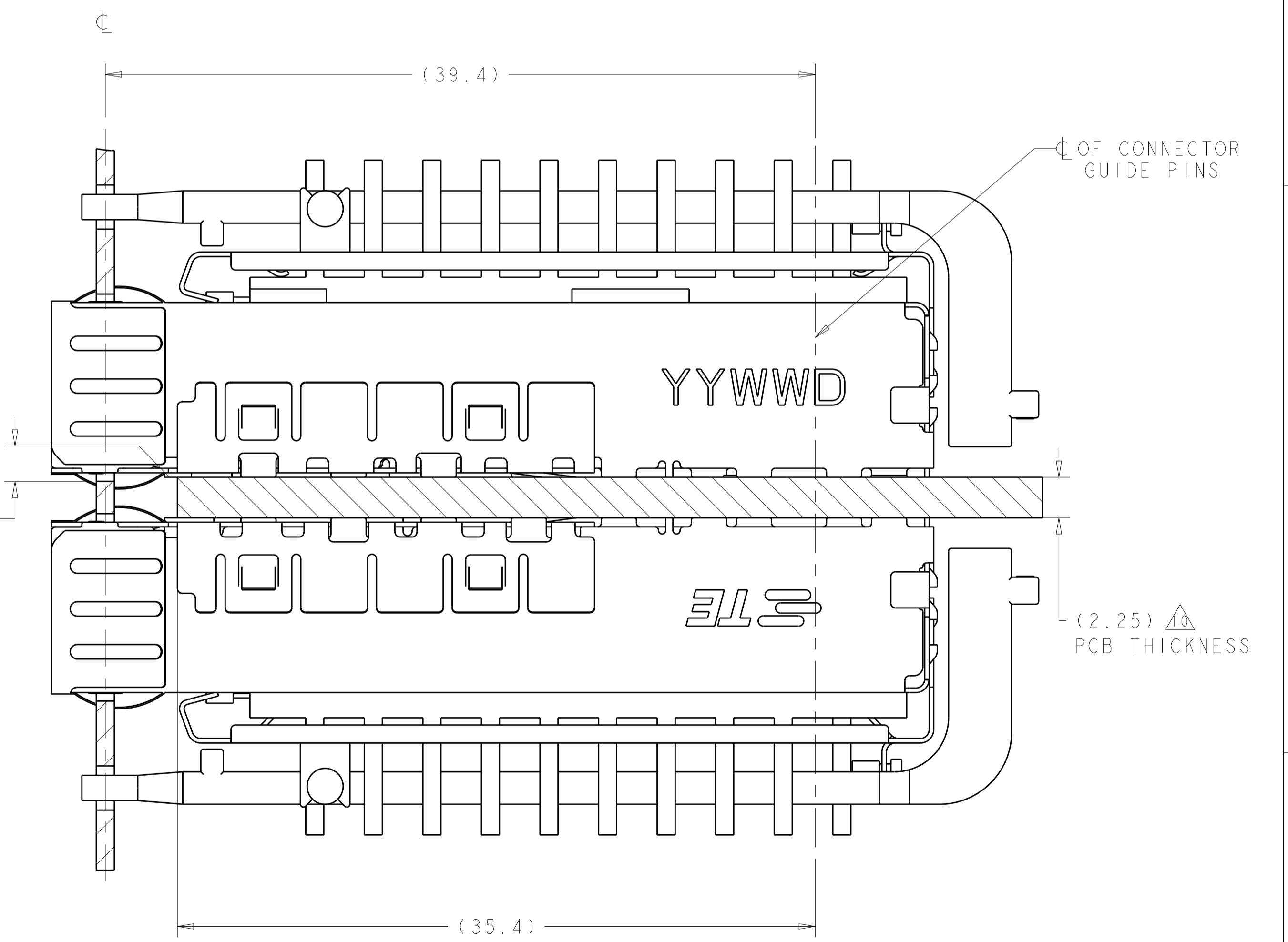
RECOMMENDED BEZEL CUT-OUT
SINGLE SIDED APPLICATIONS
SCALE 5:2



2198234
MOUNTED ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL



RECOMMENDED BEZEL CUT-OUT
BELLY TO BELLY APPLICATIONS

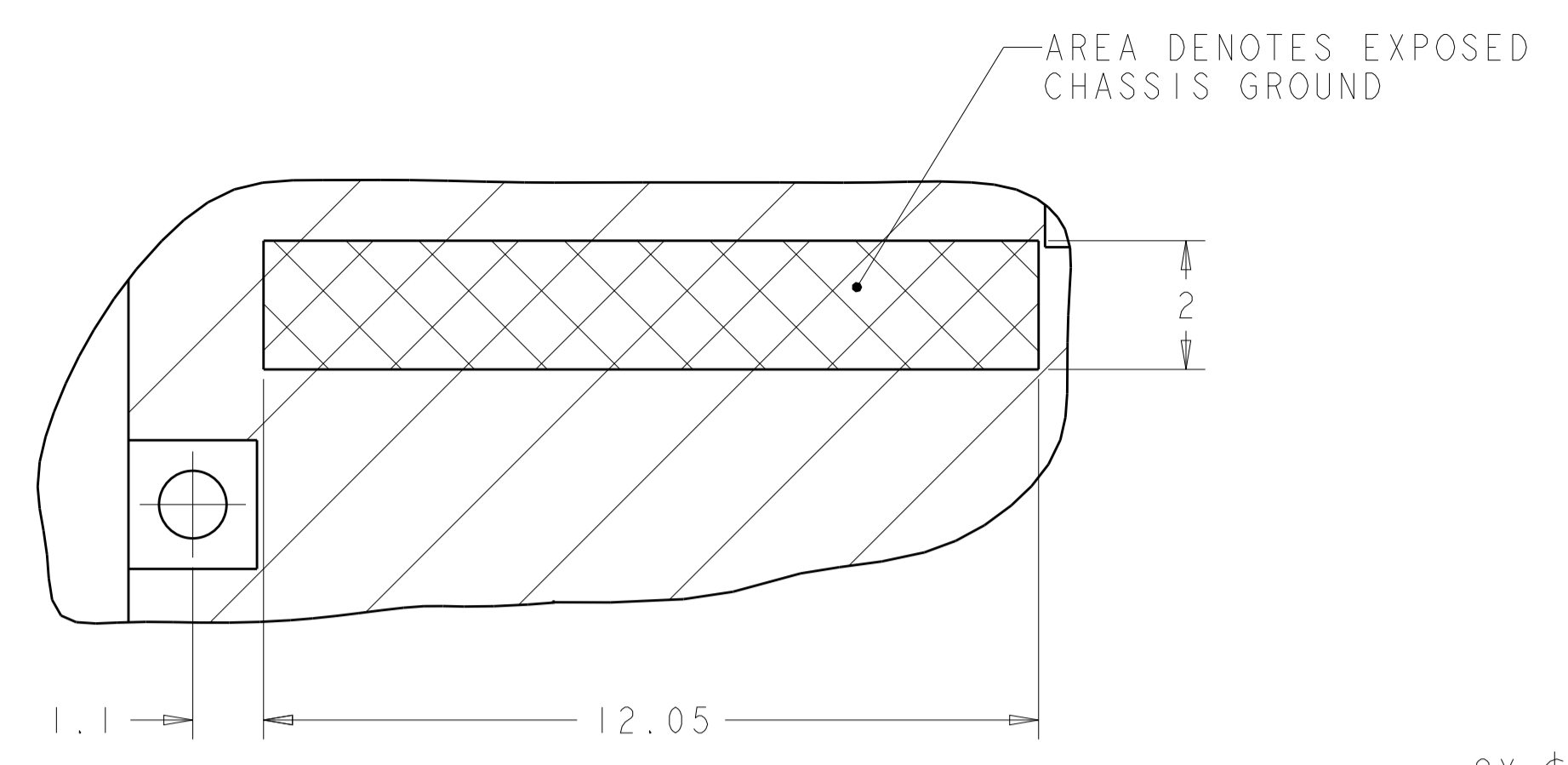


2198234
MOUNTED BELLY TO BELLY ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL

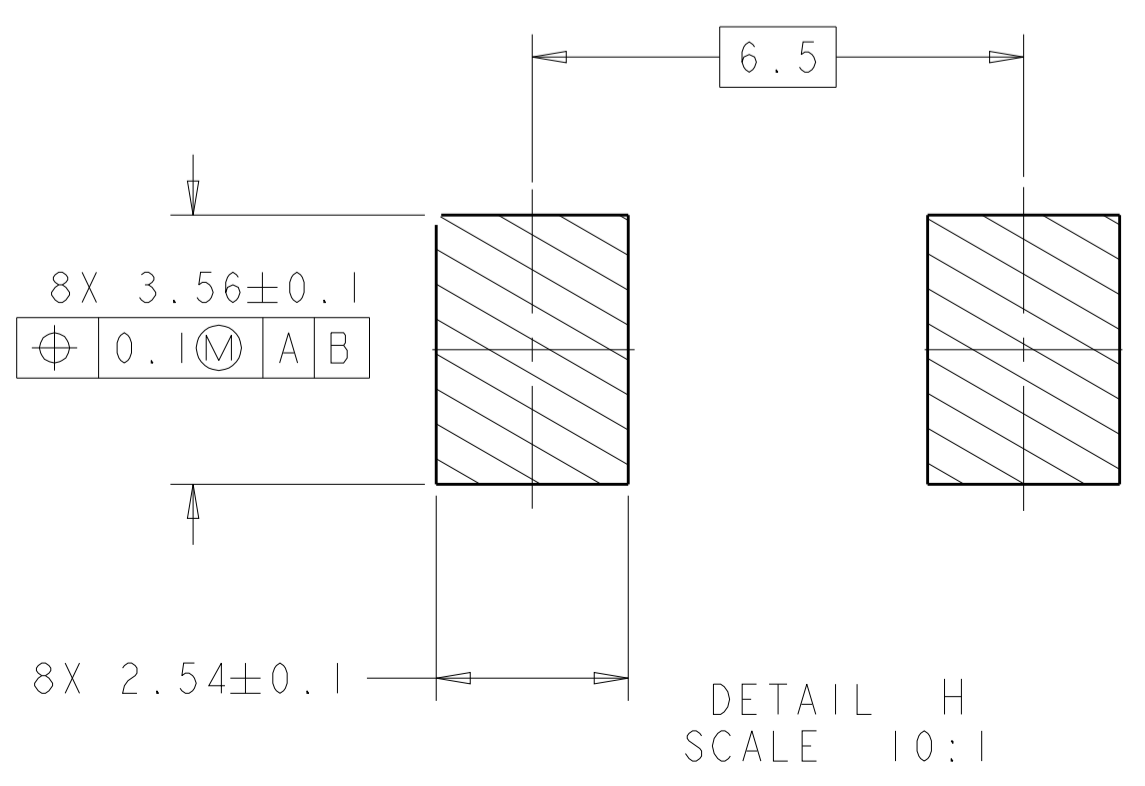
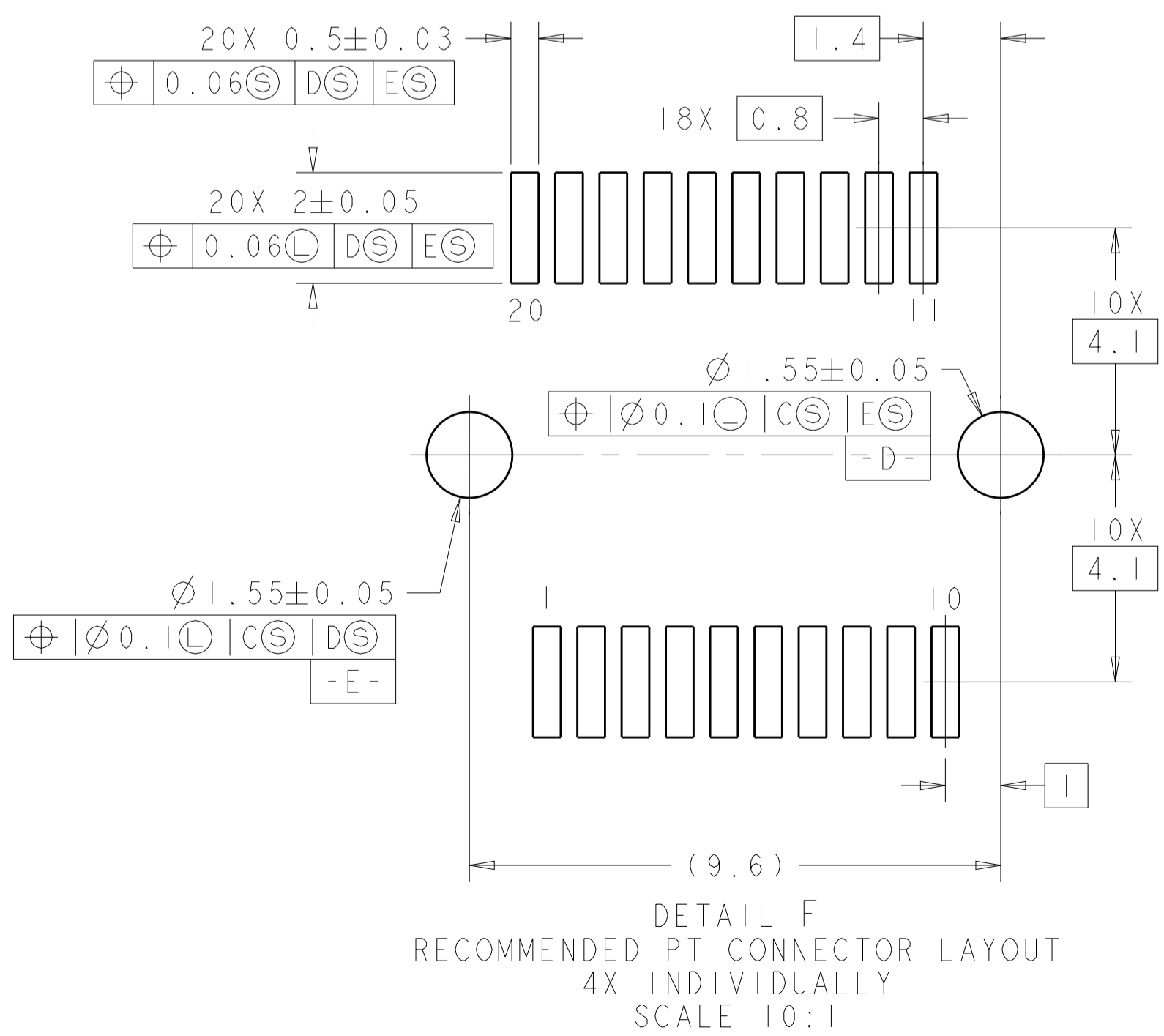
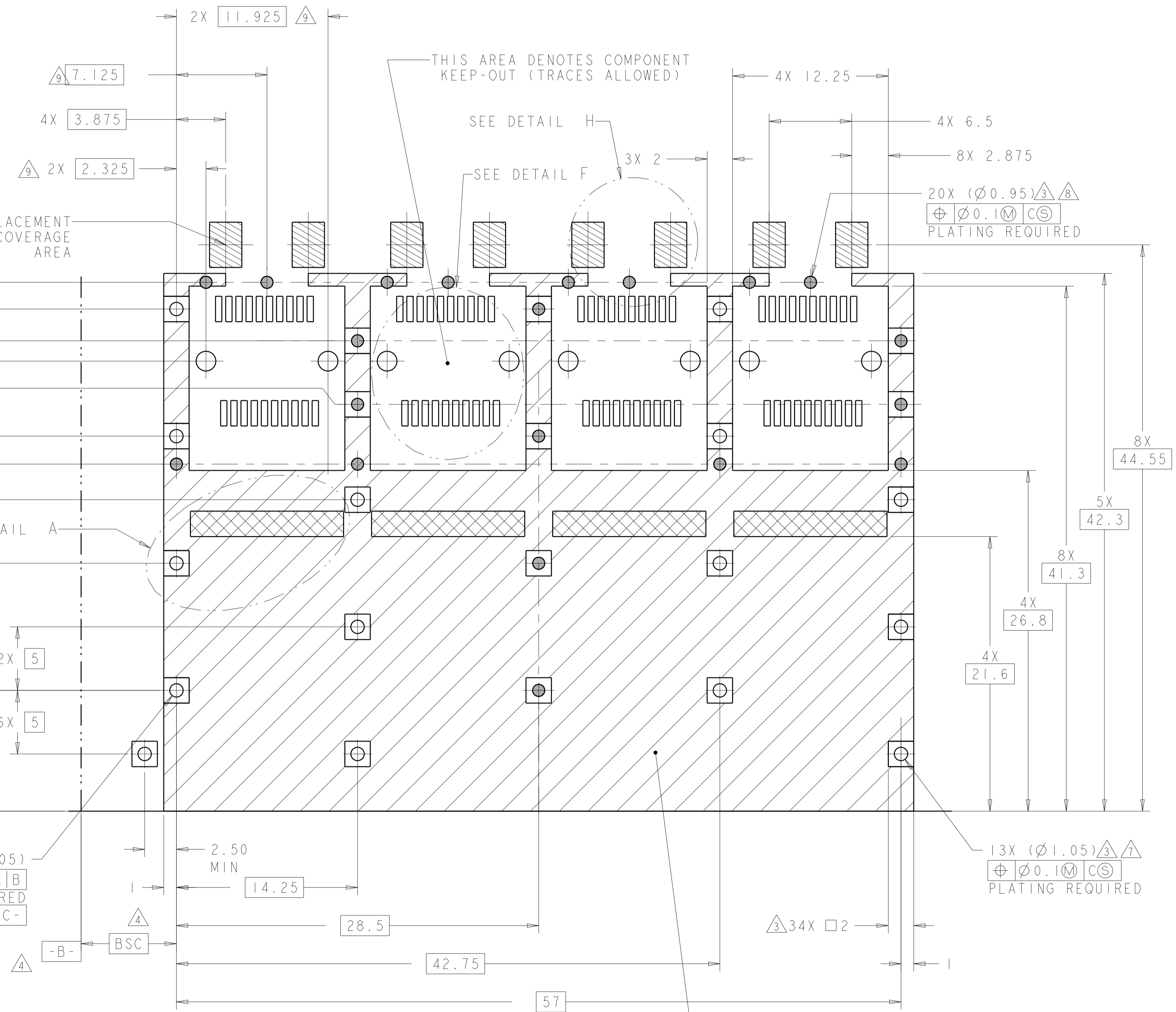
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: B. MATTHEWS 15NOV2011	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 15NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APV: M. SCHMITT 15NOV2011	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK AND LIGHTPIPE PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		SIZE: 114-13120 WEIGHT: - MATERIAL: - FINISH: -	
Customer Drawing		SCALE: 4:1	SHEET: 2 OF 4 REV: A1

LOC	DIST	REV	DATE	BY	APPV
GP	00				

REVISIONS			
REV	DESCRIPTION	DATE	BY
-	SEE SHEET 1	-	-

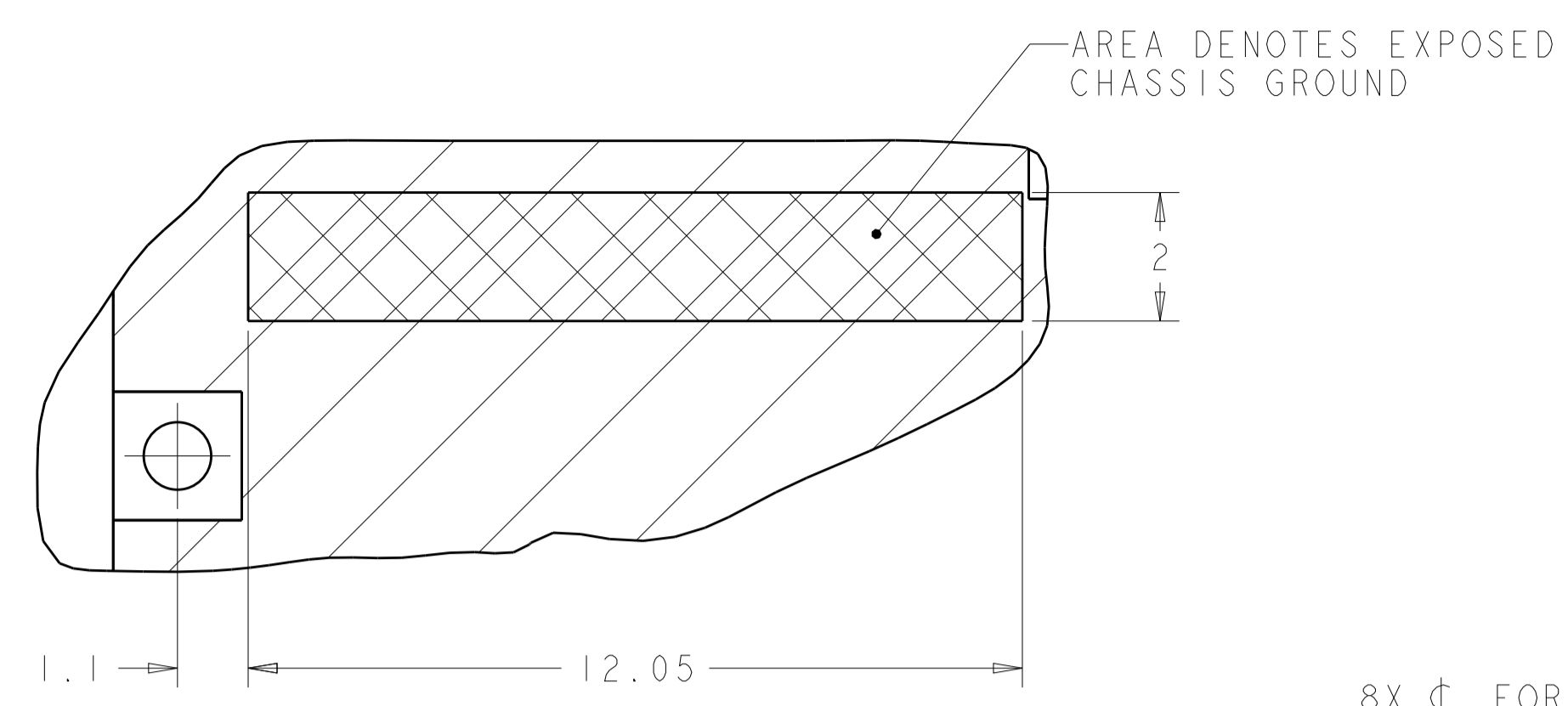


8X \varnothing FOR LED PLACEMENT AND LIGHT PIPE COVERAGE AREA



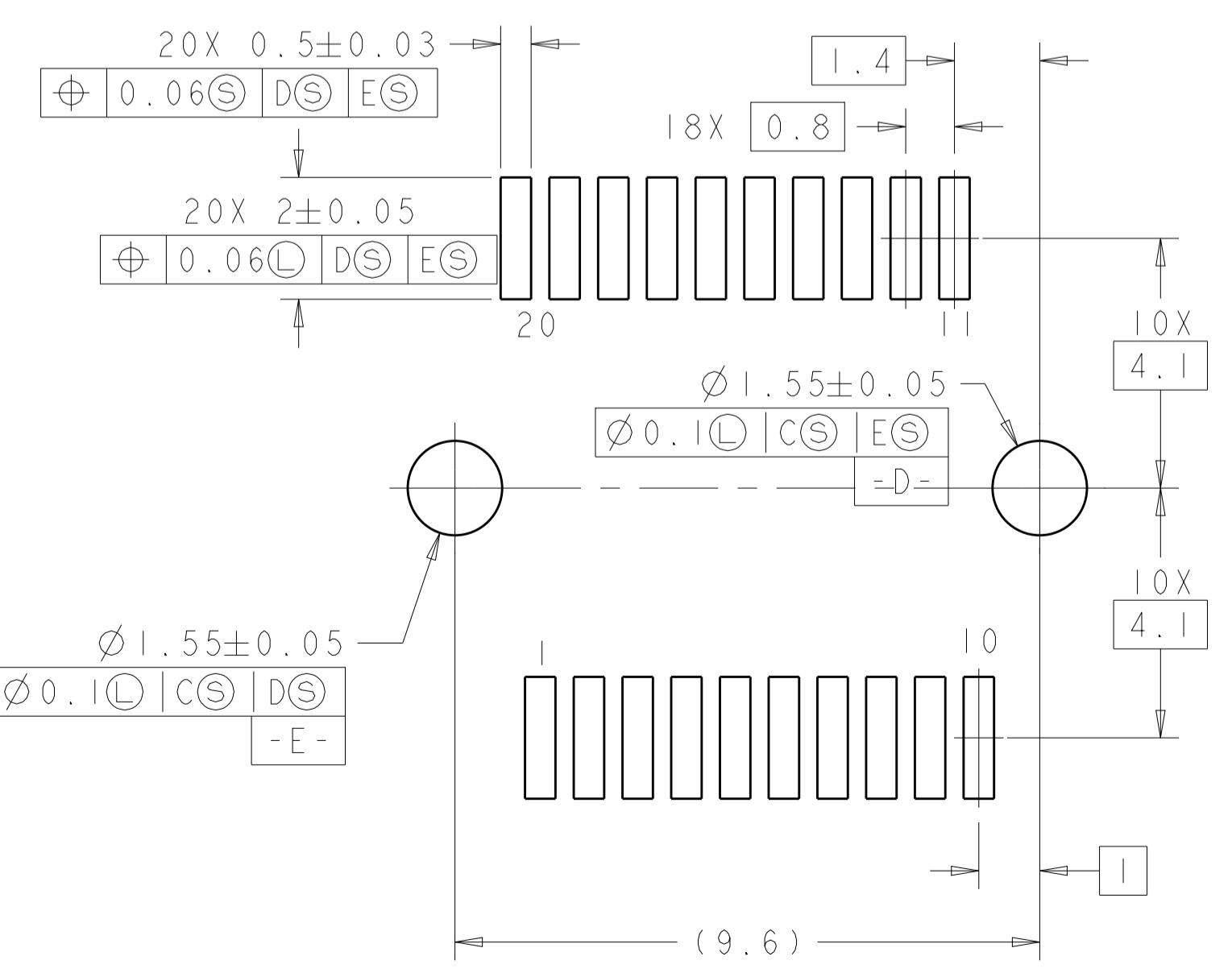
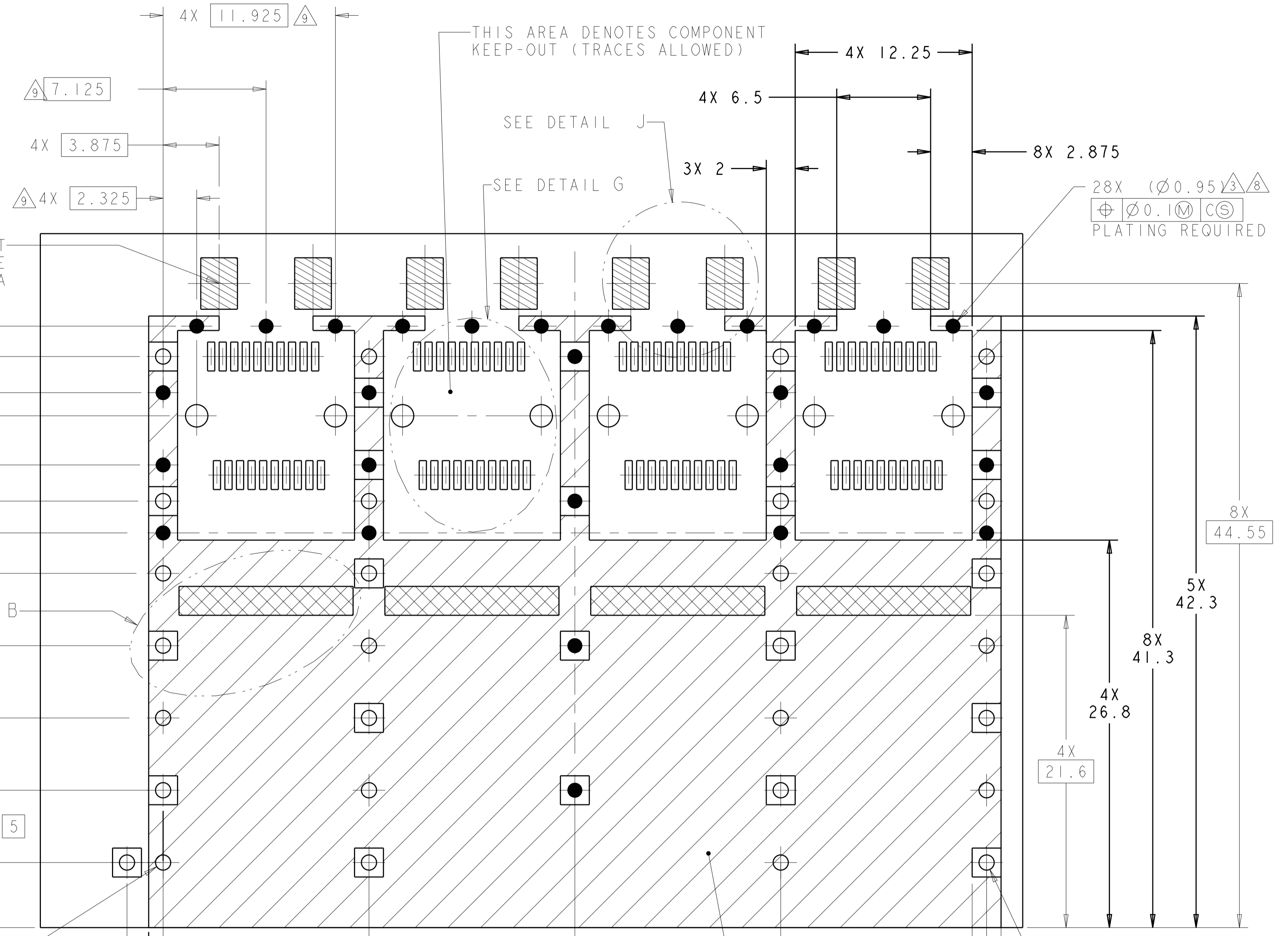
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: B. MATTHEWS 15NOV2011	 TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 15NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: M. SCHMITT 15NOV2011	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK AND LIGHTPIPE PRODUCT SPEC: 108-2364 APPLICATION SPEC: SIZE: 114-13120 WEIGHT: MATERIAL: FINISH:
0 PLC ± 0.1		RESTRICTED TO:	
1 PLC ± 0.1		Customer Drawing	
2 PLC ± 0.1		SCALE: 4:1 SHEET 3 OF 4 REV: A1	

LOC	DIST	REVISIONS			
GP	00	REV	DATE	BY	APPV
-	-	SEE SHEET 1	-	-	-

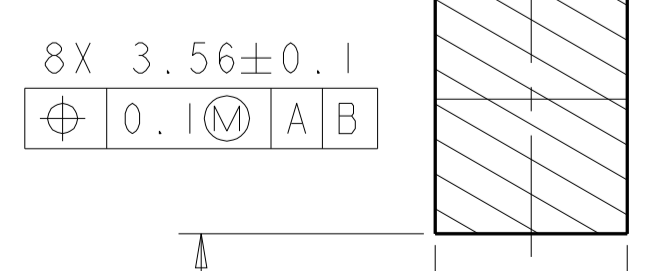
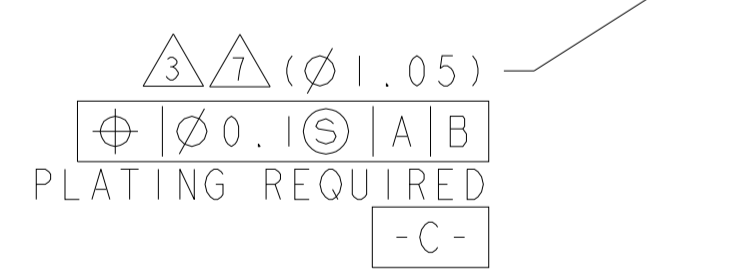


DETAIL B
4X INDIVIDUALLY
SCALE 10:1

8X \varnothing FOR LED PLACEMENT AND LIGHT PIPE COVERAGE AREA



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



DETAIL J
SCALE 10:1

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

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: B. MATTHEWS 15NOV2011	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 15NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: M. SCHMITT 15NOV2011	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK AND LIGHTPIPE PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120
0 PLC \pm 0.1 1 PLC \pm 0.1 2 PLC \pm 0.1 3 PLC \pm 0.1 4 PLC \pm 0.1 ANGLES \pm 1°		SIZE: 114-13120 WEIGHT: - MATERIAL: - FINISH: -	
MATERIAL: -		Customer Drawing	A100779 ©=2198234 SCALE: 4:1 SHEET 4 OF 4 REV: A1

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