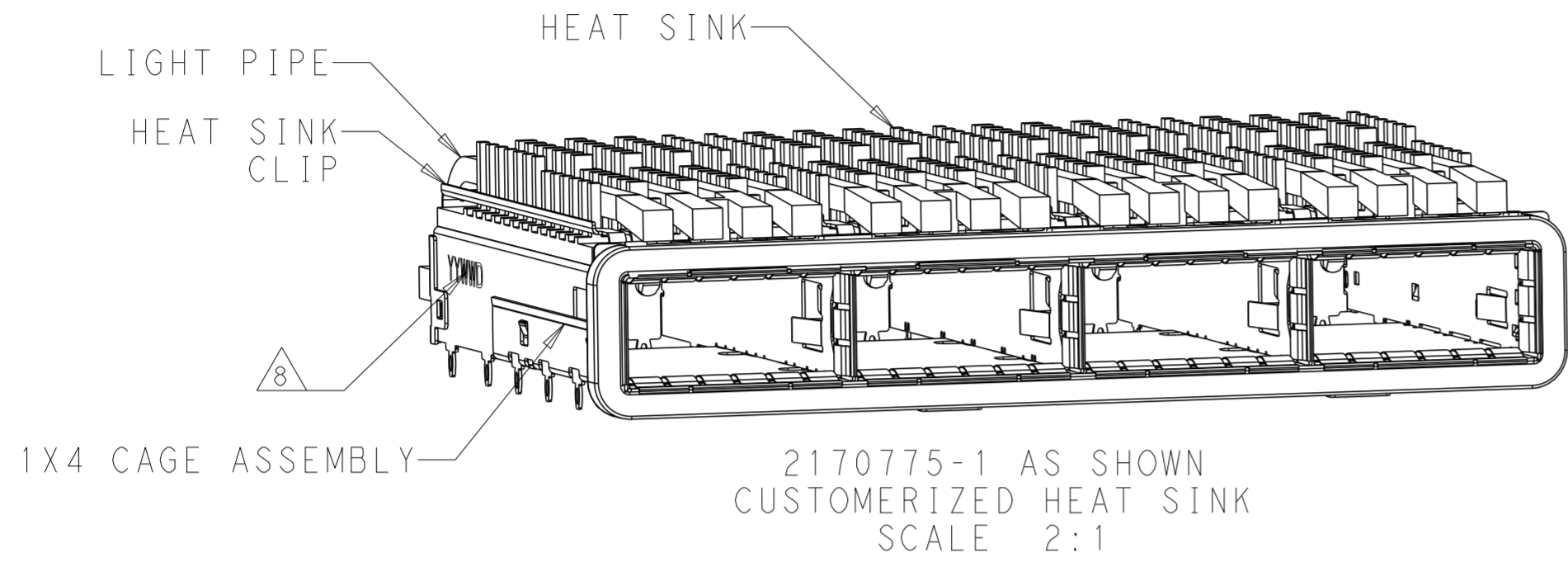
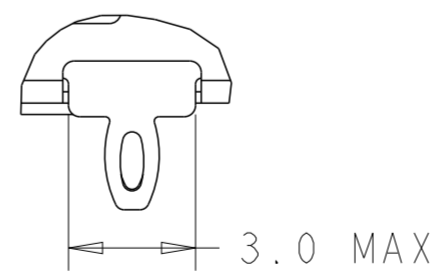
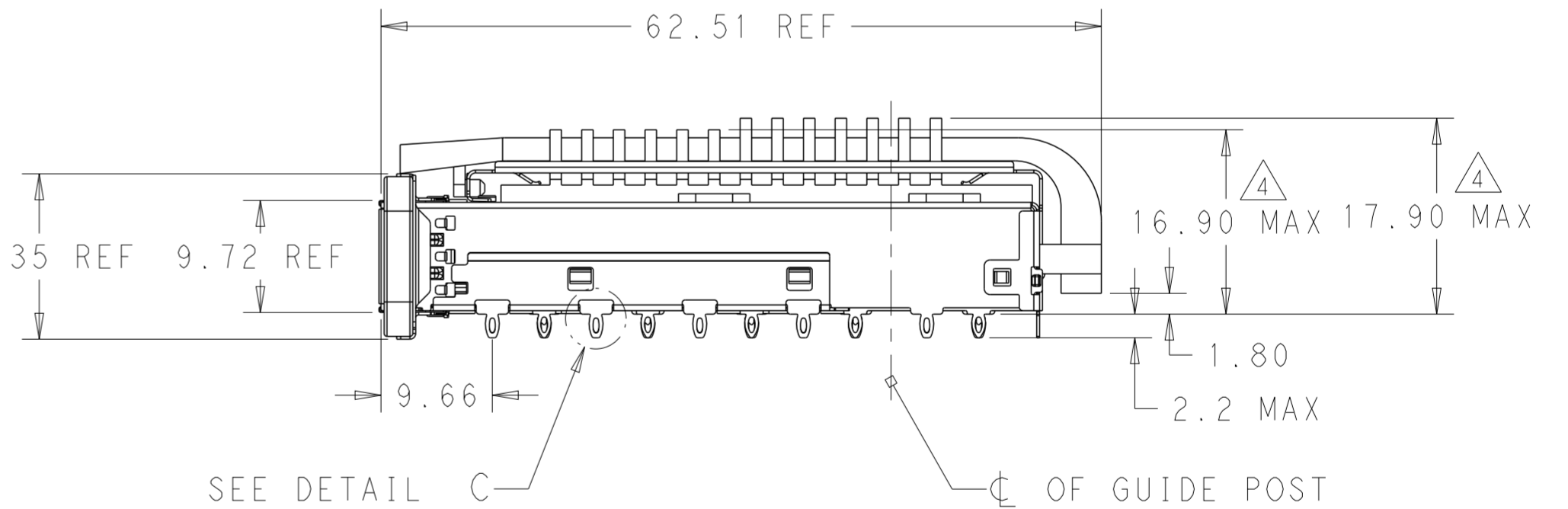
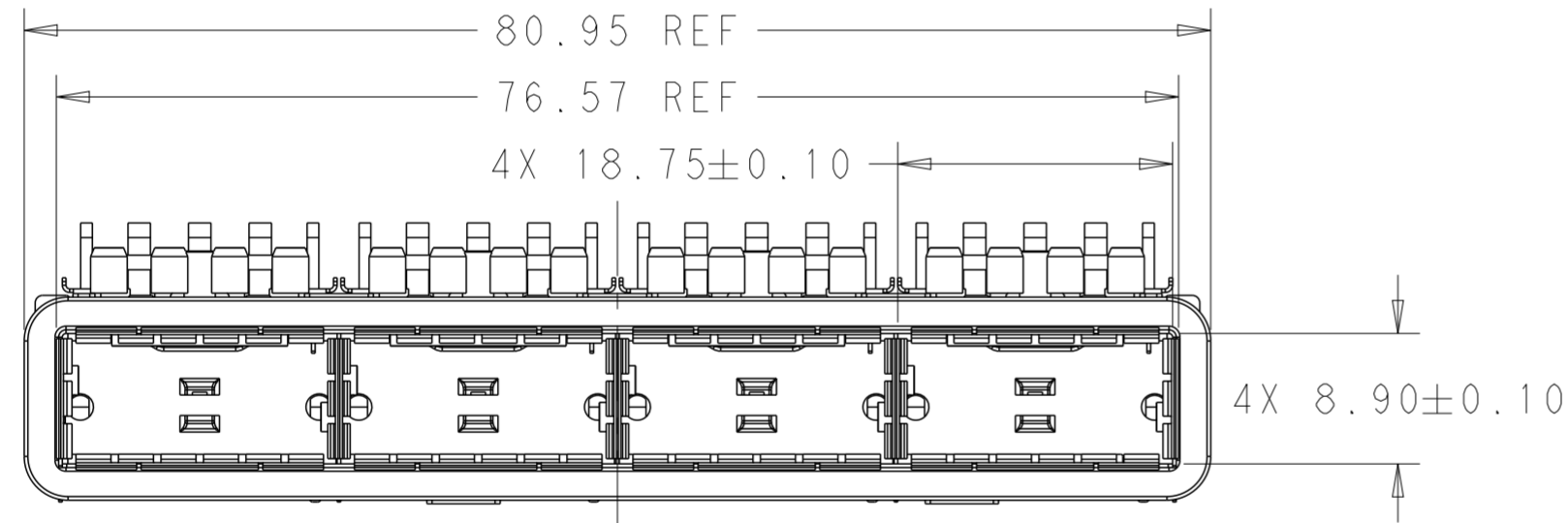


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LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		A		RELEASE	31OCT2016	JY	SH
		A1		REVISED PER ECN-22-163746	11JUL2022	IT	SZ



- COMPONENTS
 CAGE ASSEMBLY: NICKEL-SILVER ALLOY
 HEAT SINK: ALUMINUM/BLACK ANODIZE
 HEAT SINK CLIP: STAINLESS STEEL
 EMI SPRING: COPPER ALLOY/NICKEL PLATE
 GASKET: PLATED FILLED SILICONE
 LIGHT PIPE: CLEAR POLYCARBONATE WITH UL 94 V_0
 ORGANIZER: POLYESTER WITH UL 94 V_0
- REFERENCE APPLICATION SPECIFICATION 114-32023 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS
- DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER
- DIMENSION APPLIES WITH MODULE INSERTED IN CAGE
- HEAT SINKS, HEAT SINK CLIPS AND LIGHT PIPES ARE SHIPPED ASSEMBLED ON CAGE
- MINIMUM PC BOARD THICKNESS: SINGLE SIDED: 1.57 MIN
DOUBLE SIDED: 3.00 MIN
- MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.
- DATE CODE (YYWWD) MARKED APPROXIMATELY AS SHOWN.

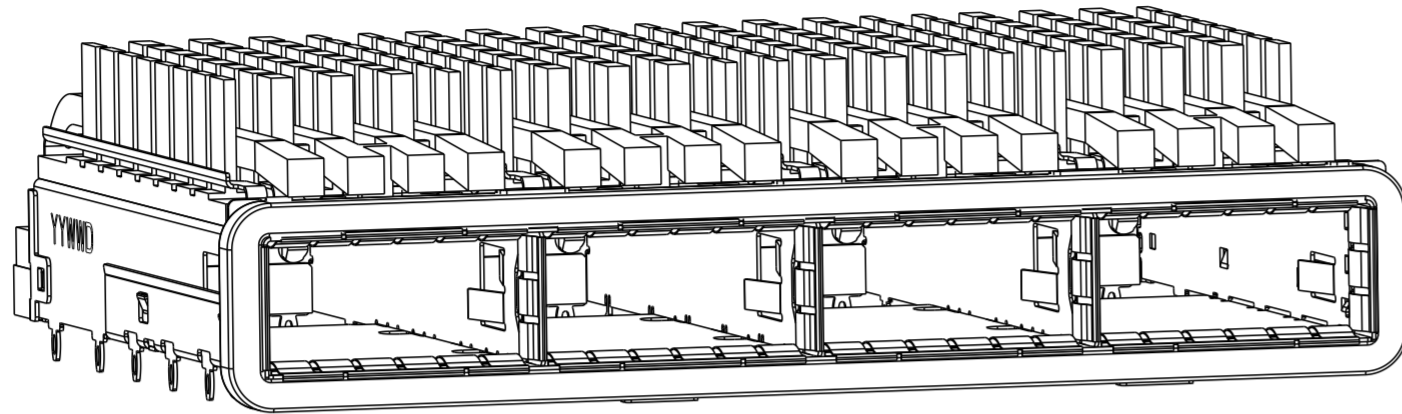


CUSTOMERIZED	2170775-4
CUSTOMERIZED	2170775-3
CUSTOMERIZED	2170775-2
CUSTOMERIZED	2170775-1
HEAT SINK HEIGHT	PART NUMBER

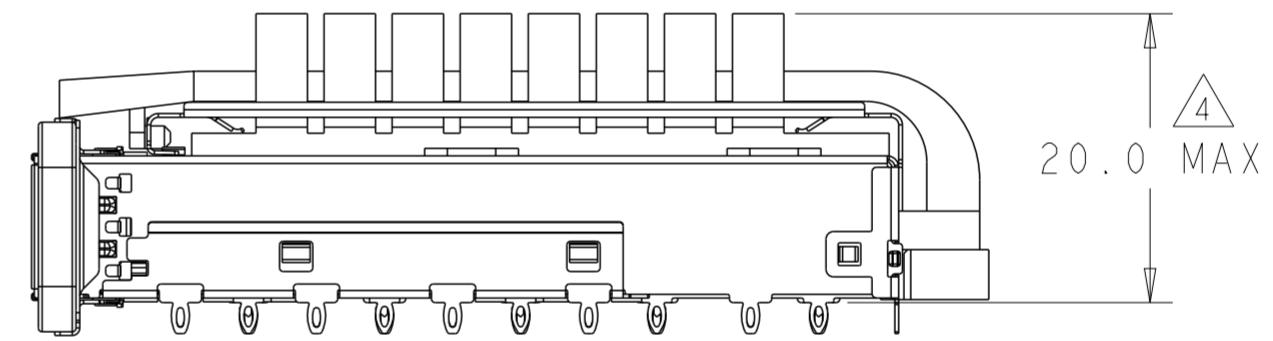
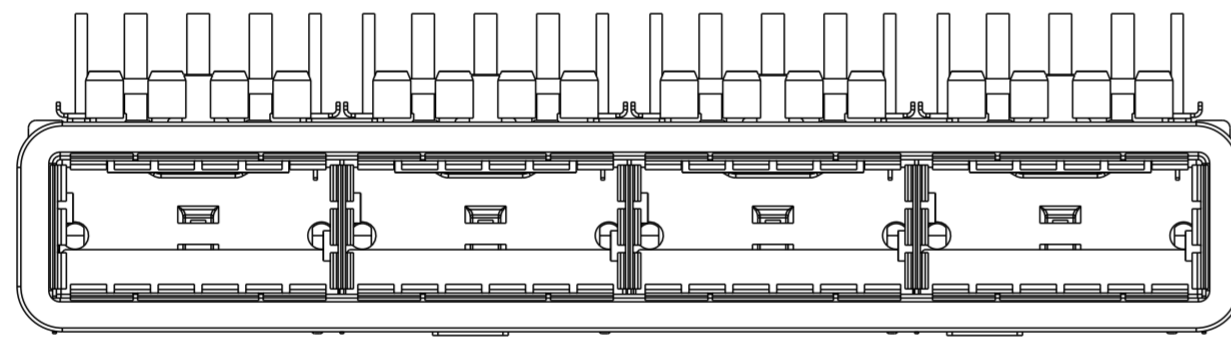
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JASON YANG 20AUG2014	STE TE Connectivity	
DIMENSIONS: mm		CHK SEAN HAN 31OCT2016	NAME CAGE ASSEMBLY, QSFP28, 1X4 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, GASKET	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH ±		APVD -	PRODUCT SPEC -	RESTRICTED TO -
MATERIAL SEE NOTES		APPLICATION SPEC -	WEIGHT -	SIZE A2
SEE NOTES		CUSTOMER DRAWING	SCALE 3:1	SHEET 1 OF 7 REV A1

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		rev_sym_3	rev_desc_3		rev.date	rev.dwn	rev.appr
		rev_sym_4	rev_desc_4		rev.date	rev.dwn	rev.appr



2170775-2 AS SHOWN
 CUSTOMERIZED HEAT SINK
 SCALE 2:1

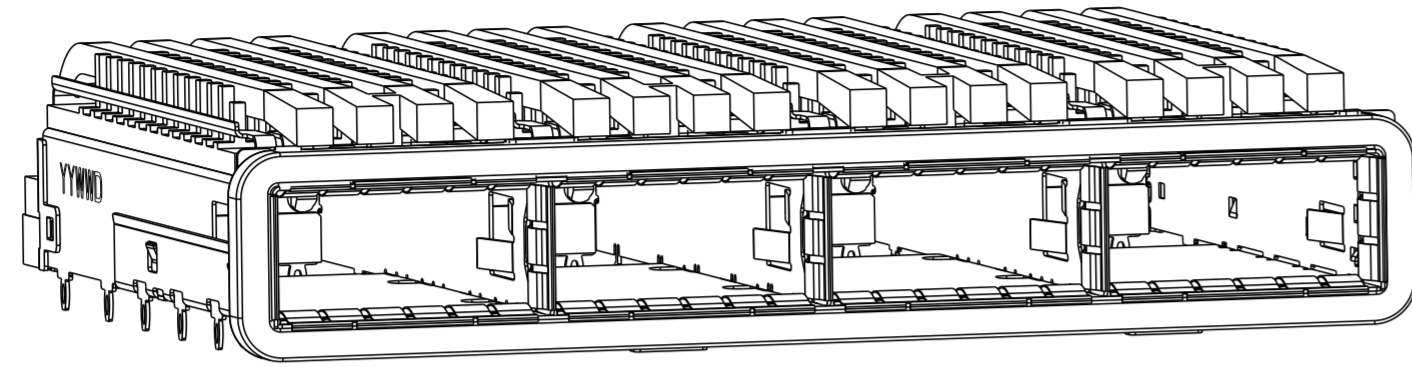


2170775-2
 UNSPECIFIED DIMENSIONS ARE SAME AS 2170775-1
 SCALE 2:1

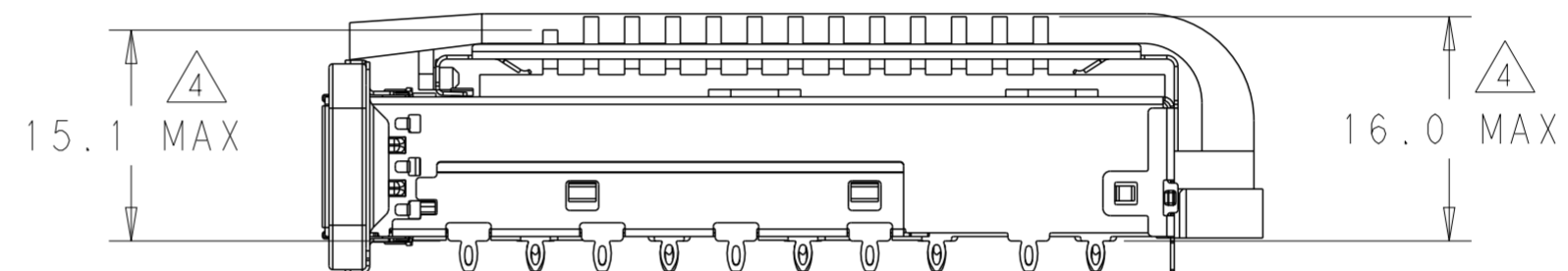
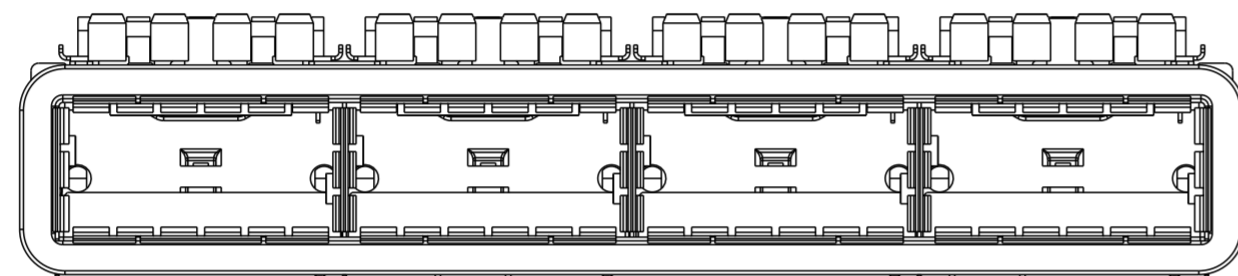
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JASON YANG 20AUG2014	 TE Connectivity	
		CHK SEAN HAN 31OCT2016		
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD	NAME	
mm	0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ±	-	CAGE ASSEMBLY, QSFP28, 1X4 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, GASKET	
MATERIAL	FINISH	PRODUCT SPEC	SIZE	CAGE CODE
SEE NOTES material_2	SEE NOTES finish_spec_2	APPLICATION SPEC	A2	00779
		WEIGHT	DRAWING NO	RESTRICTED TO
		CUSTOMER DRAWING	C-2170775	-
		SCALE	SHEET	REV
		3:1	2 OF 7	A1

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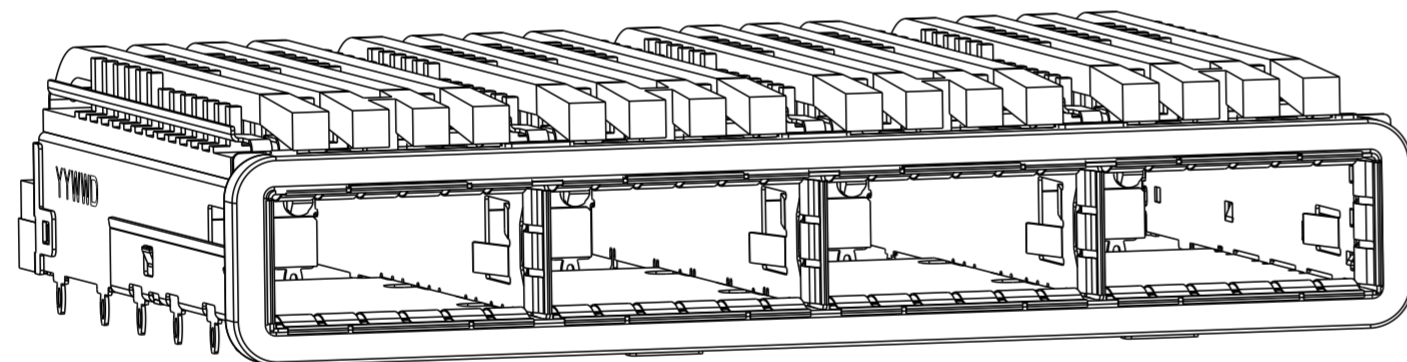
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rev_sym_3	rev_desc_3			rev.date	rev.dwn	rev.appr	3
rev_sym_4	rev_desc_4			rev.date	rev.dwn	rev.appr	4



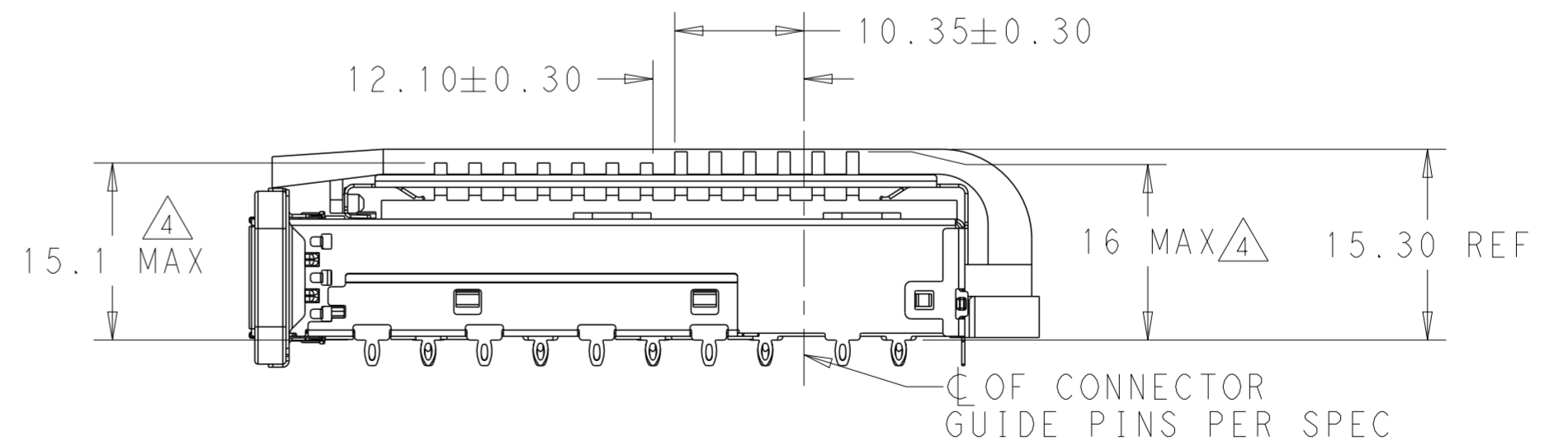
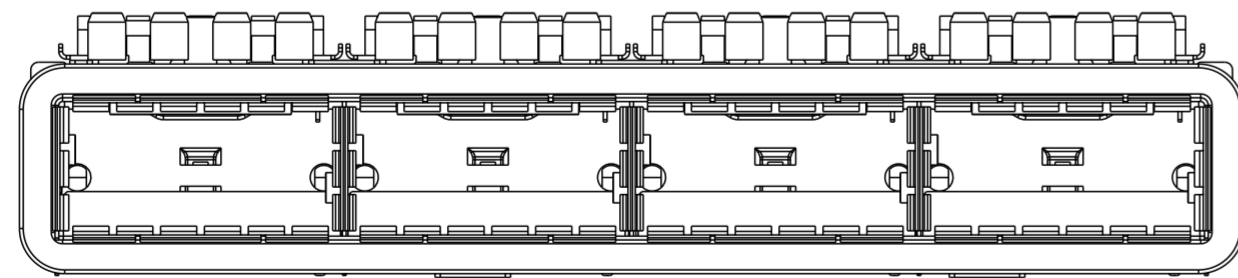
2170775-3 AS SHOWN
 CUSTOMERIZED HEAT SINK
 SCALE 2:1




2170775-3
 UNSPECIFIED DIMENSIONS ARE SAME AS 2170775-1
 SCALE 2:1



2170775-4 AS SHOWN
 CUSTOMERIZED HEAT SINK
 SCALE 2:1

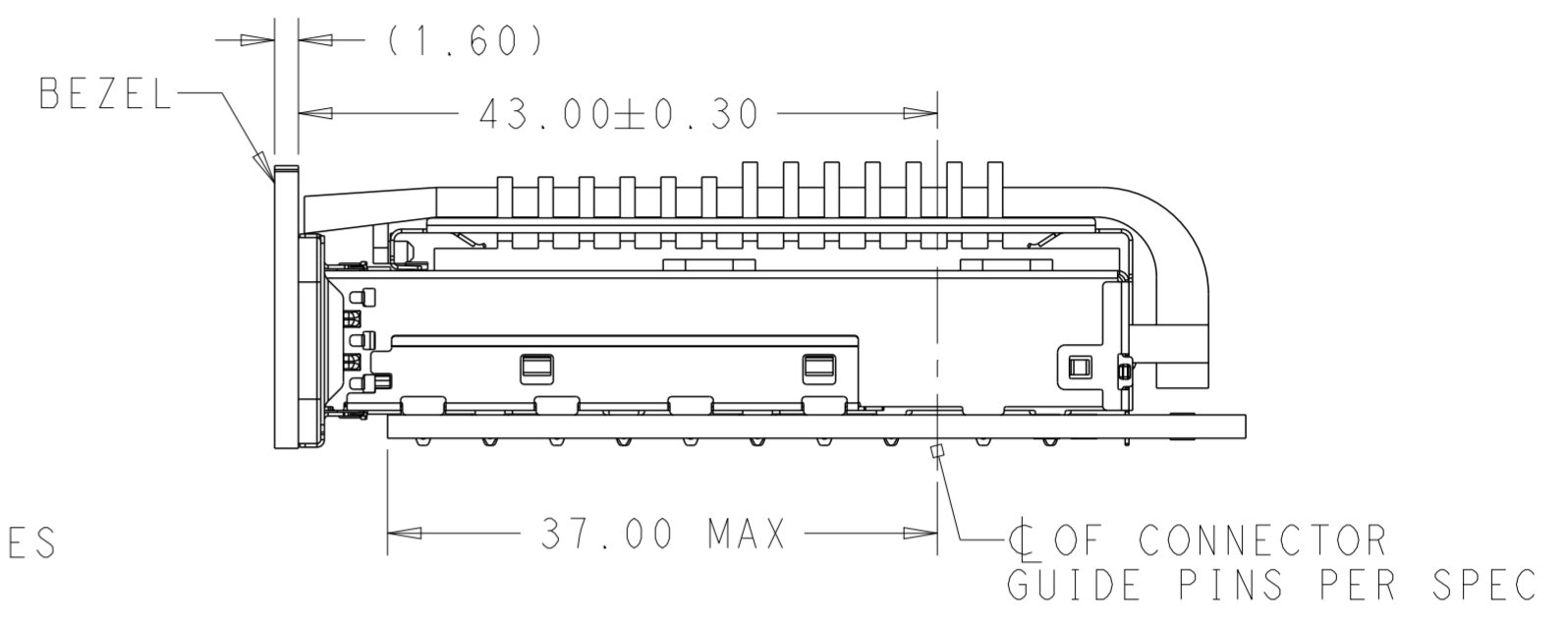
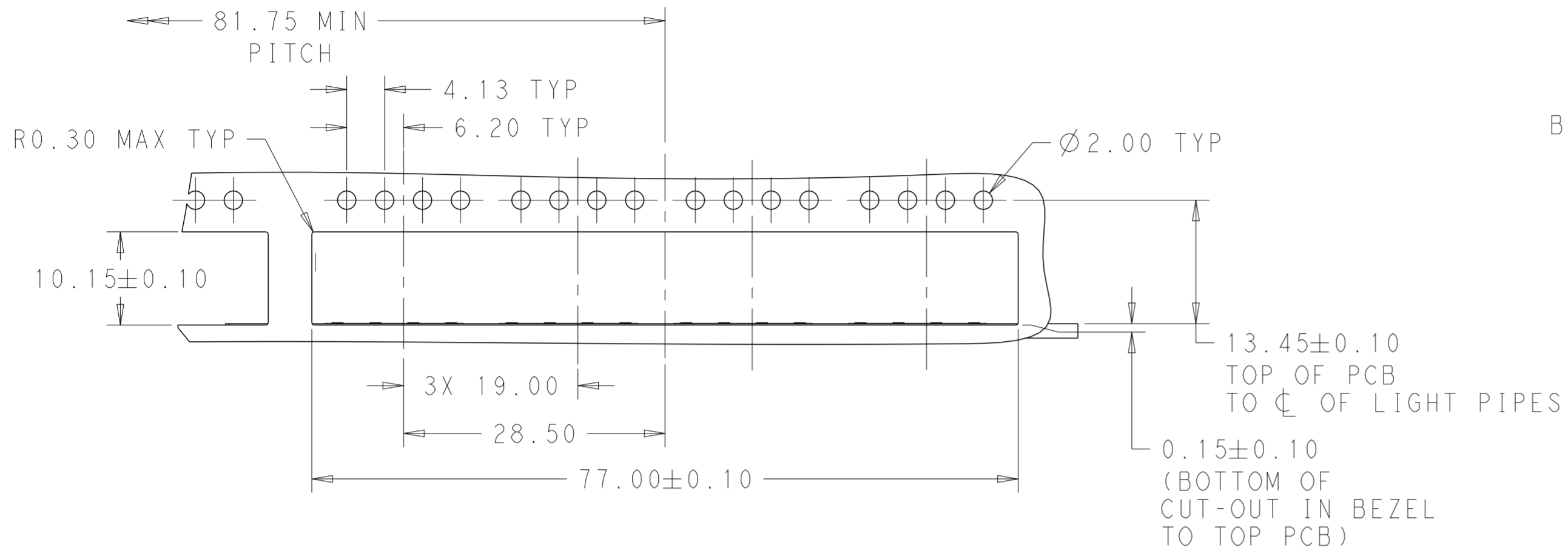


2170775-4
 UNSPECIFIED DIMENSIONS ARE SAME AS 2170775-3
 SCALE 2:1

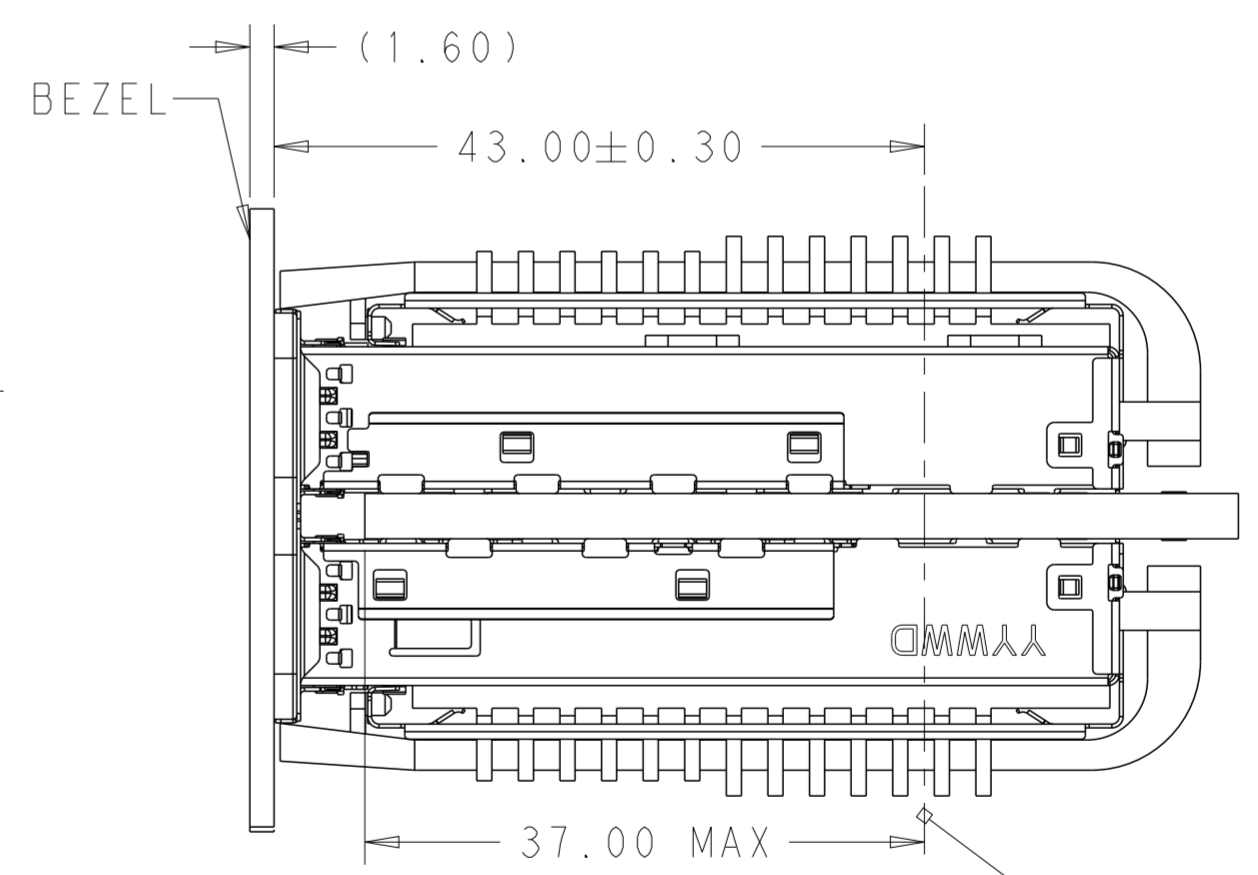
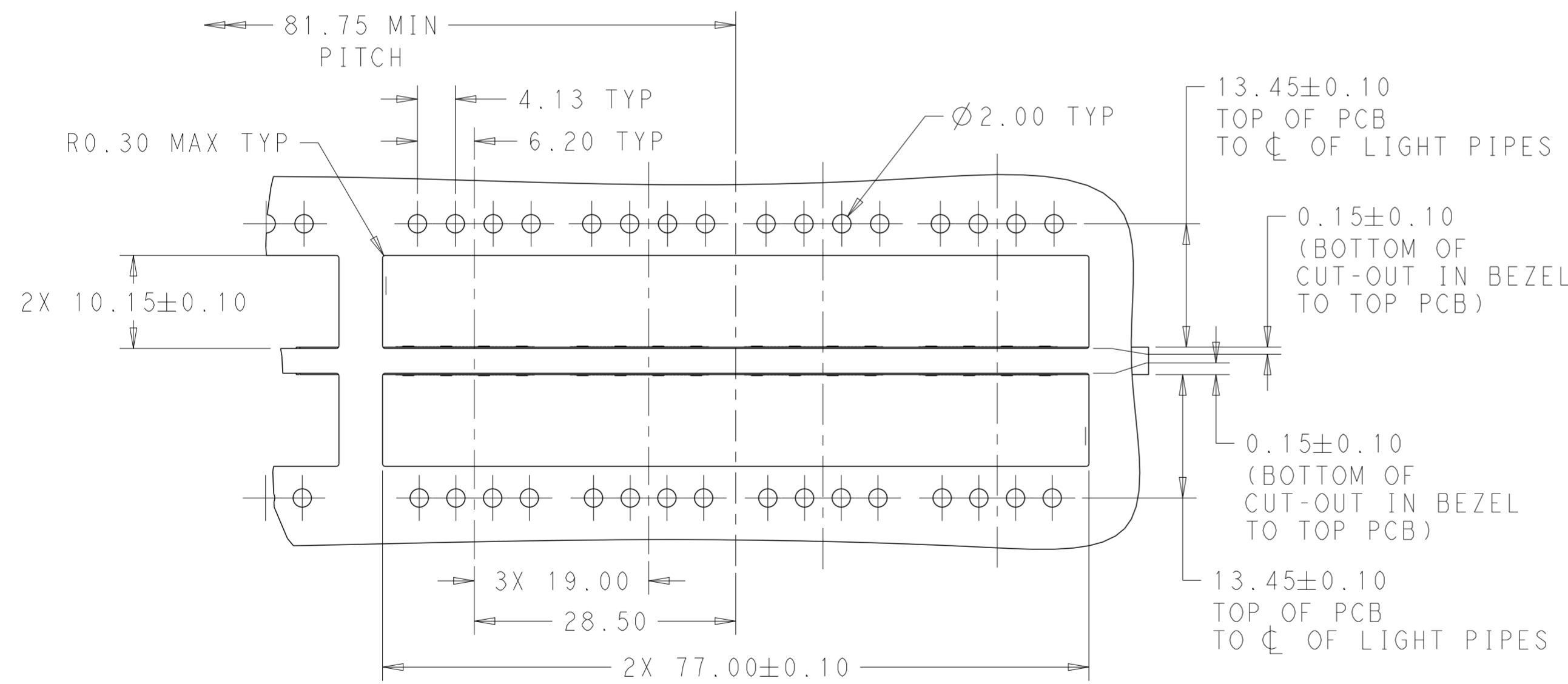
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JASON YANG 20AUG2014	 TE Connectivity	
		CHK SEAN HAN 31OCT2016		
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD	NAME	
mm	0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ±	-	CAGE ASSEMBLY, QSFP28, 1X4 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, GASKET	
	ANGLES ±	PRODUCT SPEC	SIZE	CAGE CODE
MATERIAL	FINISH	APPLICATION SPEC	A200779	C-2170775
SEE NOTES material_2	SEE NOTES finish_spec_2	WEIGHT	DRAWING NO	
		CUSTOMER DRAWING	RESTRICTED TO	
		SCALE 3:1	SHEET 3 OF 7	REV A1

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LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION		DATE	DWN	APVD	
rev_sym_1	16E6-8H6E11			rev.date	rev.dwn	rev.appr	1
rev_sym_2	rev_desc_2			rev.date	rev.dwn	rev.appr	2
rev_sym_3	rev_desc_3			rev.date	rev.dwn	rev.appr	3
rev_sym_4	rev_desc_4			rev.date	rev.dwn	rev.appr	4



SINGLE SIDE MOUNTING
SCALE 2:1

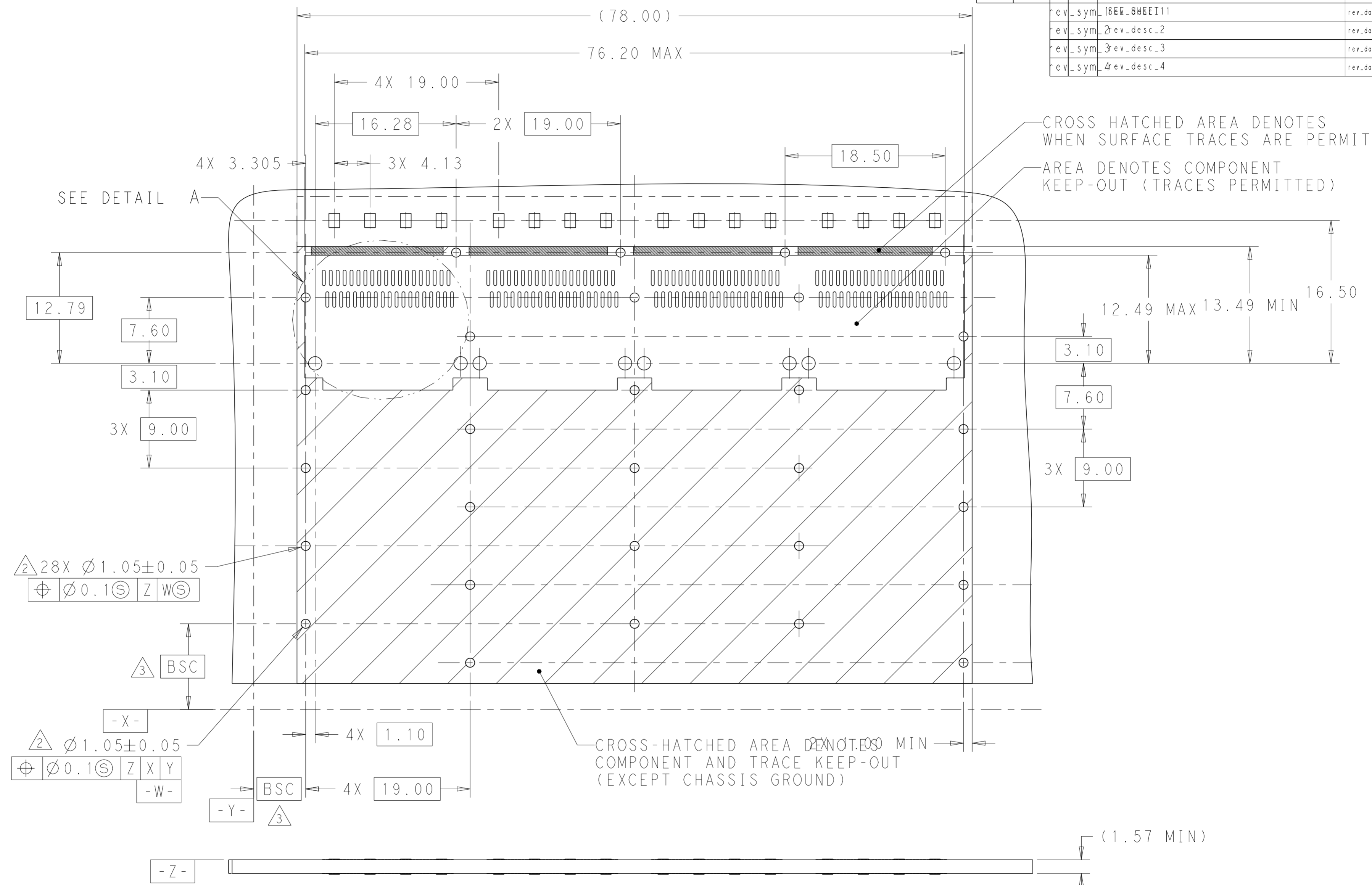


BELLY TO BELLY MOUNTING
SCALE 2:1

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		CHK SEAN HAN 31OCT2016		
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD	NAME	
mm	0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ±	PRODUCT SPEC	CAGE ASSEMBLY, QSFP28, 1X4 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, GASKET	
	ANGLES ±	APPLICATION SPEC	SIZE	CAGE CODE
MATERIAL	FINISH	WEIGHT	A200779	DRAWING NO
SEE NOTES material_2	SEE NOTES finish_spec_2	CUSTOMER DRAWING	C-2170775	RESTRICTED TO
			SCALE	SHEET
			3:1	4 OF 7
			REV	A1

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LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION		DATE	DWN	APVD	
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rev_sym_3	rev_desc_3			rev.date	rev.dwn	rev.appr	3
rev_sym_4	rev_desc_4			rev.date	rev.dwn	rev.appr	4



CROSS HATCHED AREA DENOTES WHEN SURFACE TRACES ARE PERMITTED
 AREA DENOTES COMPONENT KEEP-OUT (TRACES PERMITTED)

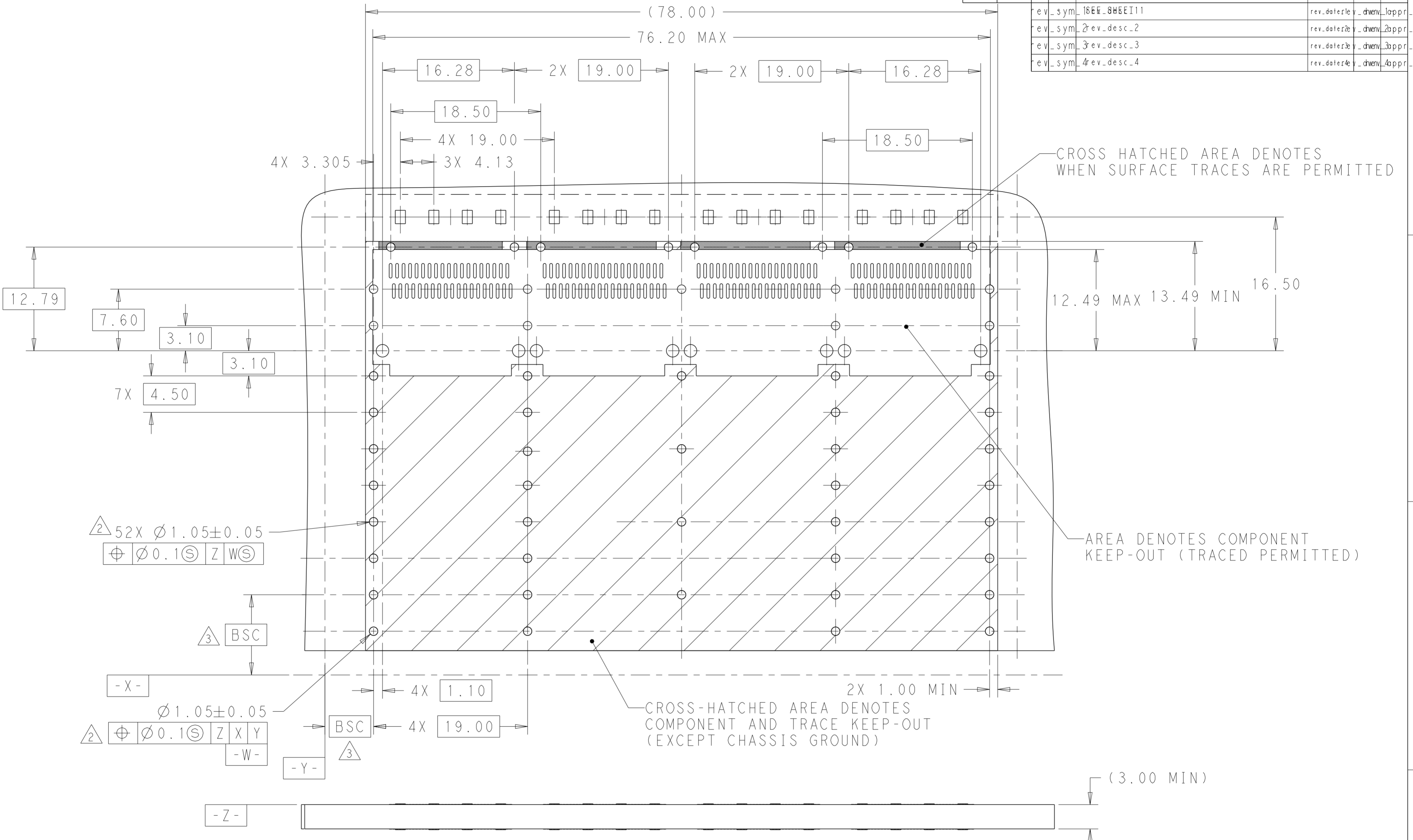
CROSS-HATCHED AREA DENOTES MIN COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

RECOMMENDED PCB LAYOUT
 SINGLE SIDE MOUNTED CONFIGURATION
 PCB TOLERANCE: ±0.05
 SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JASON YANG 20AUG2014	TE Connectivity	
		CHK SEAN HAN 31OCT2016		
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME CAGE ASSEMBLY, QSFP28, 1X4 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, GASKET
		0 PLC ±	1 PLC ±0.25	PRODUCT SPEC
		2 PLC ±0.2	3 PLC ±	APPLICATION SPEC
		4 PLC ±	ANGLES ±	FINISH
MATERIAL SEE NOTES material_2		FINISH SEE NOTES finish_spec_2		SIZE A200779
		CUSTOMER DRAWING		DRAWING NO C-2170775
		SCALE 1:1		RESTRICTED TO
		SHEET 5 OF 7		REV A1

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REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
1	rev_sym_1	16E-8HBEI11	rev.date	rev.dwn
2	rev_sym_2	rev_desc_2	rev.date	rev.dwn
3	rev_sym_3	rev_desc_3	rev.date	rev.dwn
4	rev_sym_4	rev_desc_4	rev.date	rev.dwn



CROSS HATCHED AREA DENOTES WHEN SURFACE TRACES ARE PERMITTED

AREA DENOTES COMPONENT KEEP-OUT (TRACED PERMITTED)

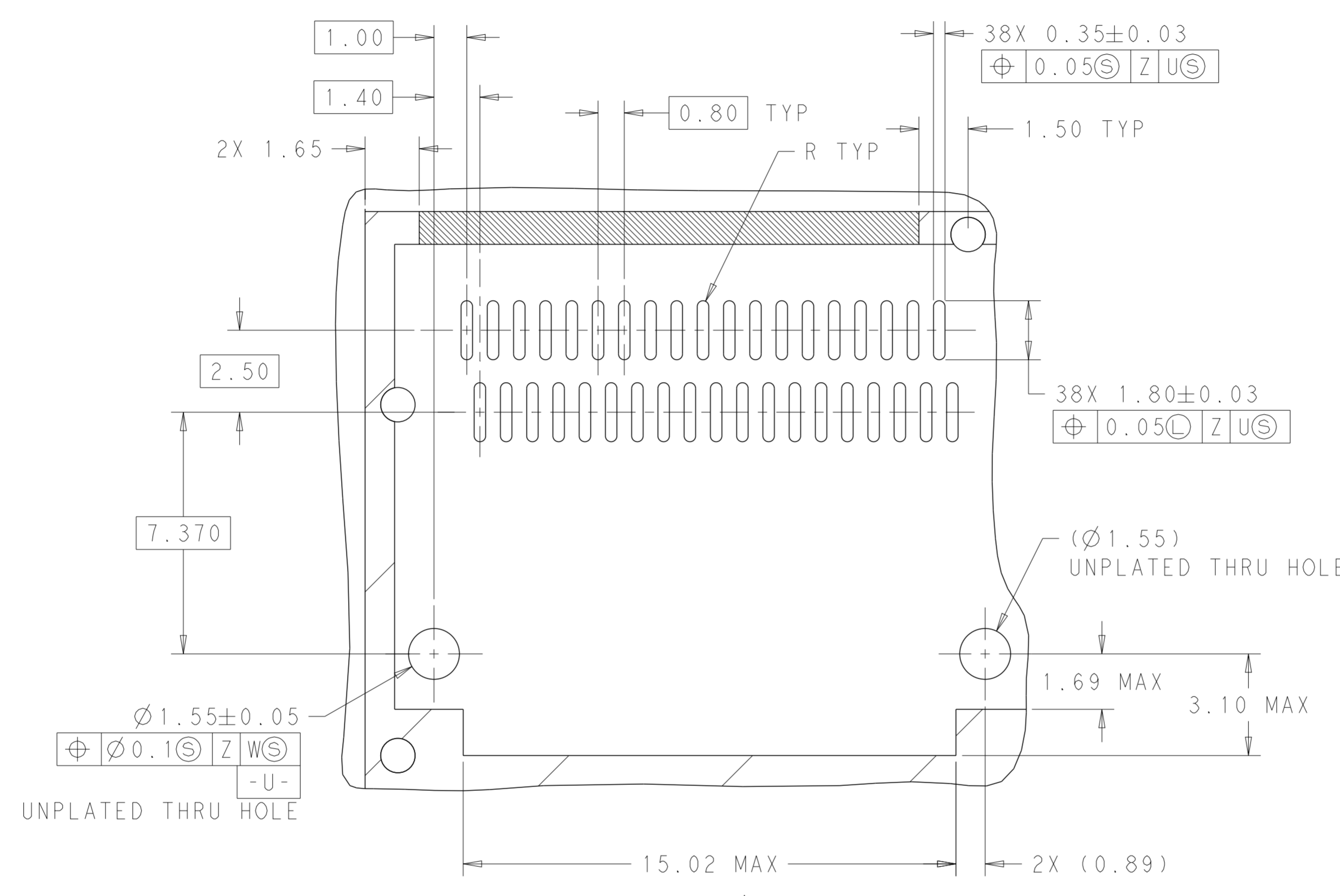
CROSS-HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

RECOMMENDED PCB LAYOUT
 BELLY TO BELLY MOUNTED CONFIGURATION
 PCB TOLERANCE: ±0.05
 SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JASON YANG 20AUG2014	TE Connectivity	
		CHK SEAN HAN 31OCT2016		
DIMENSIONS: mm		APVD -	NAME CAGE ASSEMBLY, QSFP28, 1X4 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, GASKET	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH		PRODUCT SPEC -	SIZE A2	
MATERIAL SEE NOTES material_2		APPLICATION SPEC -	CAGE CODE A200779	
		WEIGHT -	DRAWING NO C-2170775	
		CUSTOMER DRAWING		RESTRICTED TO -
		SCALE 1:1		SHEET 6 OF 7
				REV A1

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LOC		DIST		REVISIONS			
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rev_sym_3	rev_desc_3			rev.dater	rev.dwn	rev.appr	3
rev_sym_4	rev_desc_4			rev.dater	rev.dwn	rev.appr	4



DETAIL A
 RECOMMENDED CONNECTOR LAYOUT
 (APPLIES TO ALL PCB LAYOUTS)
 4X INDIVIDUALLY
 SCALE 8:1

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		CHK SEAN HAN 31OCT2016		
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH SEE NOTES		NAME CAGE ASSEMBLY, QSFP28, 1X4 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, GASKET
MATERIAL SEE NOTES material_2		FINISH SEE NOTES finish_spec_2		SIZE A200779
		PRODUCT SPEC APPLICATION SPEC WEIGHT		DRAWING NO C-2170775
		CUSTOMER DRAWING		RESTRICTED TO -
		SCALE 1:1		SHEET 7 OF 7 REV A1