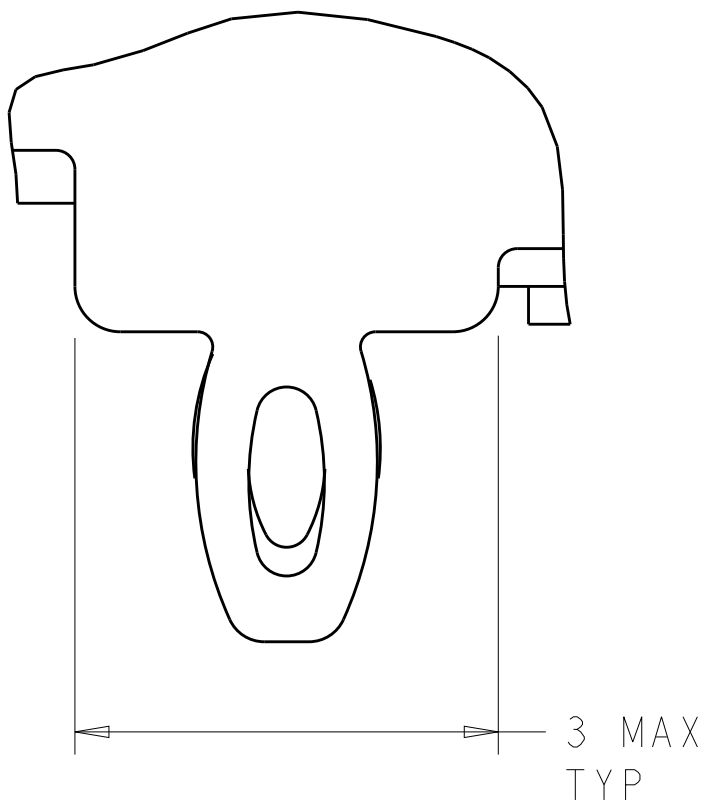


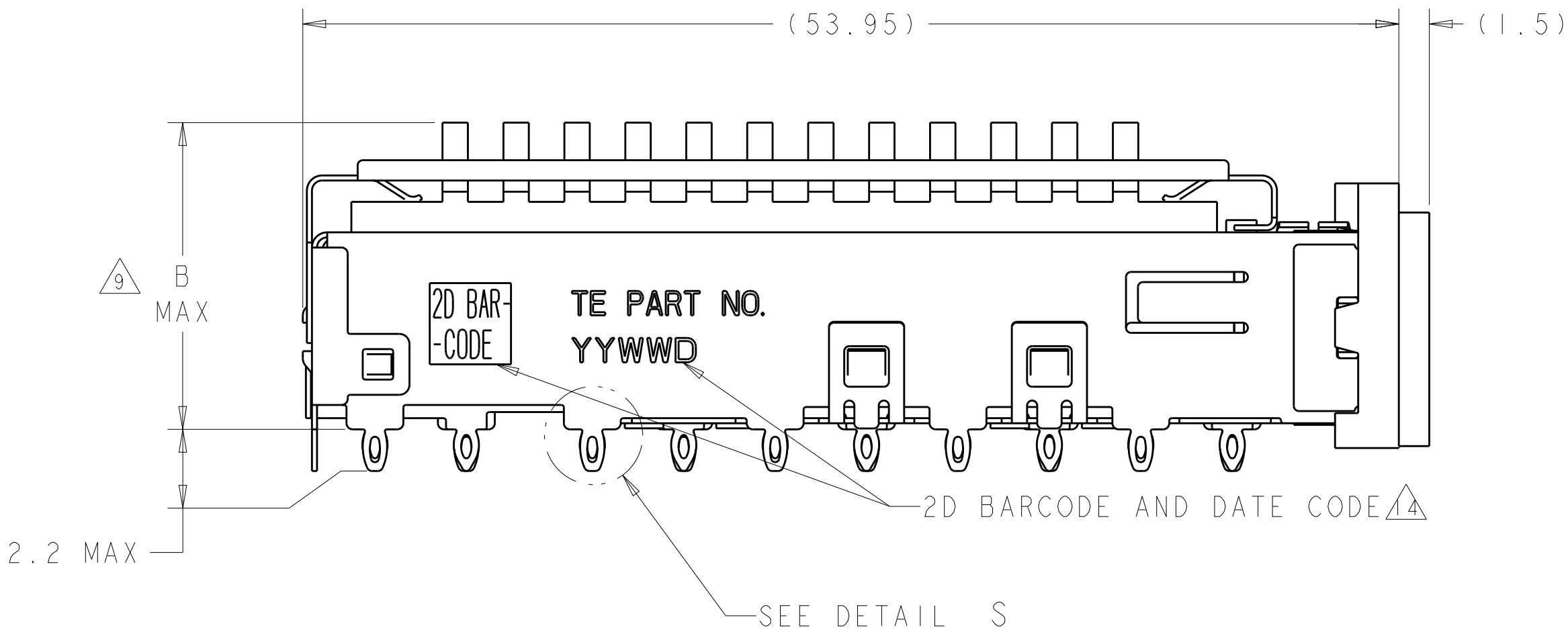
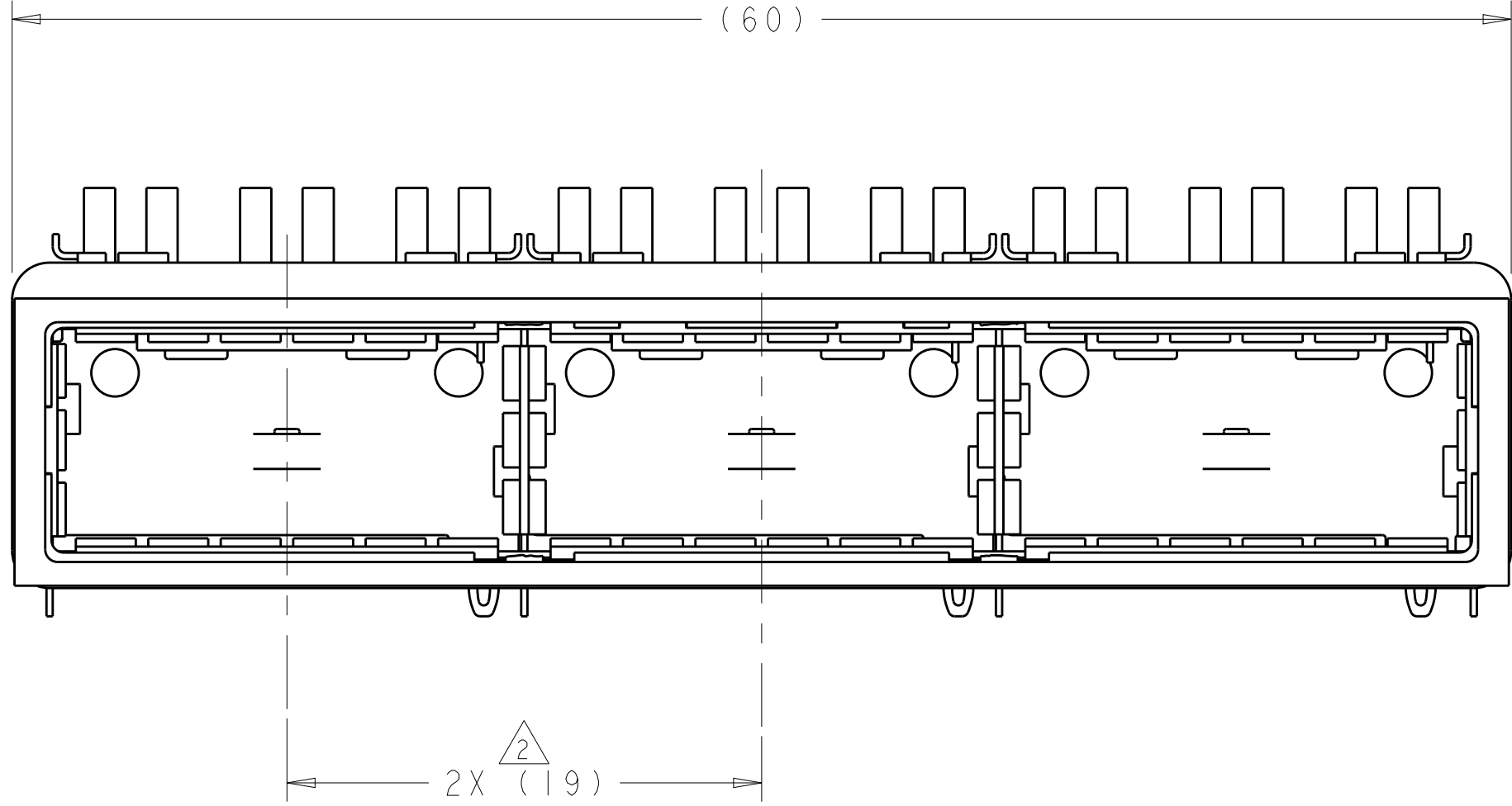
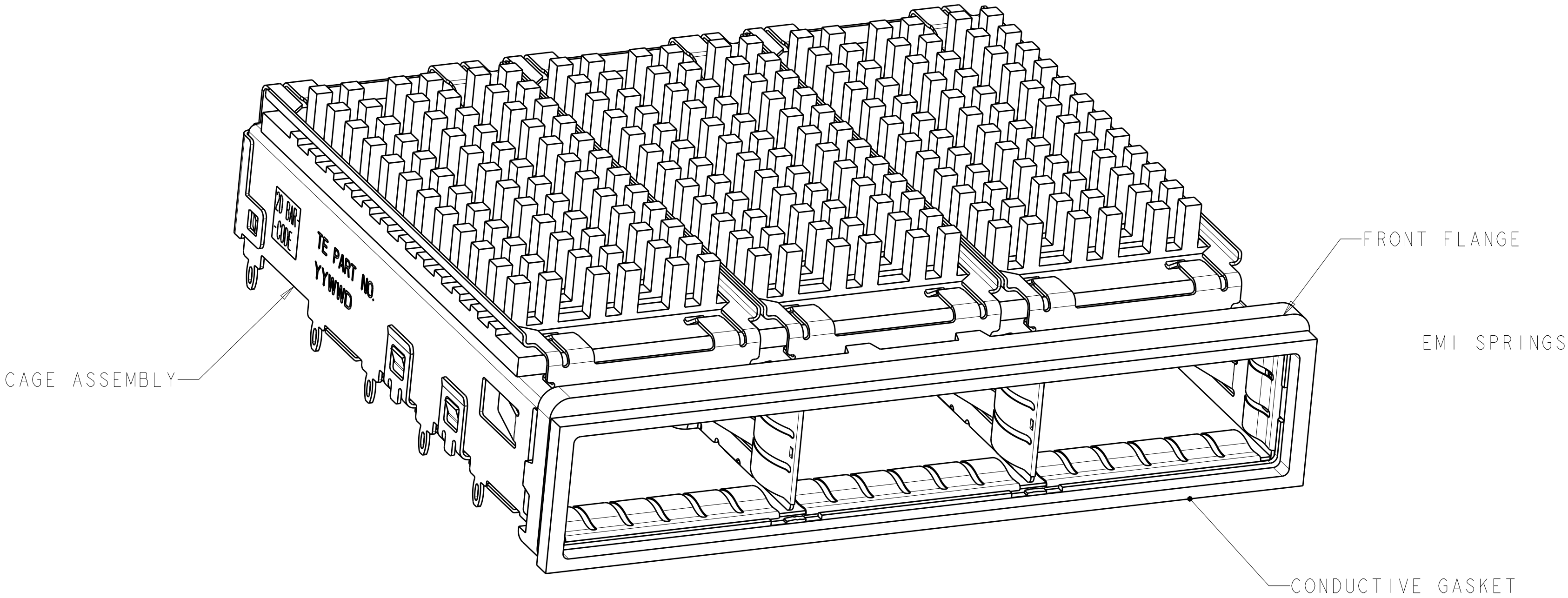
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		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00		I	PRELIMINARY	23FEB2012	KS	AC
			A	REVISED PER ECR-12-006970	17APR2012	KS	AC
			B	REVISED PER ECO-15-005721	4AUG2015	RG	SH



DETAIL S ¹²
SCALE 20:1

- ¹ MATERIALS:
CAGE ASSEMBLY: NICKEL SILVER, 0.25 THICK
EMI SPRINGS: COPPER ALLOY
EMI GASKET: BURRER FOAM
FRONT FLANGE: ZINC ALLOY
HEAT SINK: ALUMINUM
HEAT SINK CLIP: STAINLESS STEEL
- ² PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.
- ³ SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- ⁴ REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- ⁵ DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- ⁶ DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD.
MINIMUM SINGLE SIDED PC BOARD THICKNESS: 1.45mm
MINIMUM DOUBLE SIDED PC BOARD THICKNESS: 2.2mm PER QSFP
- ⁷ HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- ⁸ DATUM **-A-** IS TOP SURFACE OF PC BOARD.
- ⁹ DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- ¹⁰ UNPLATED THRU HOLE.
11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- ¹² SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.

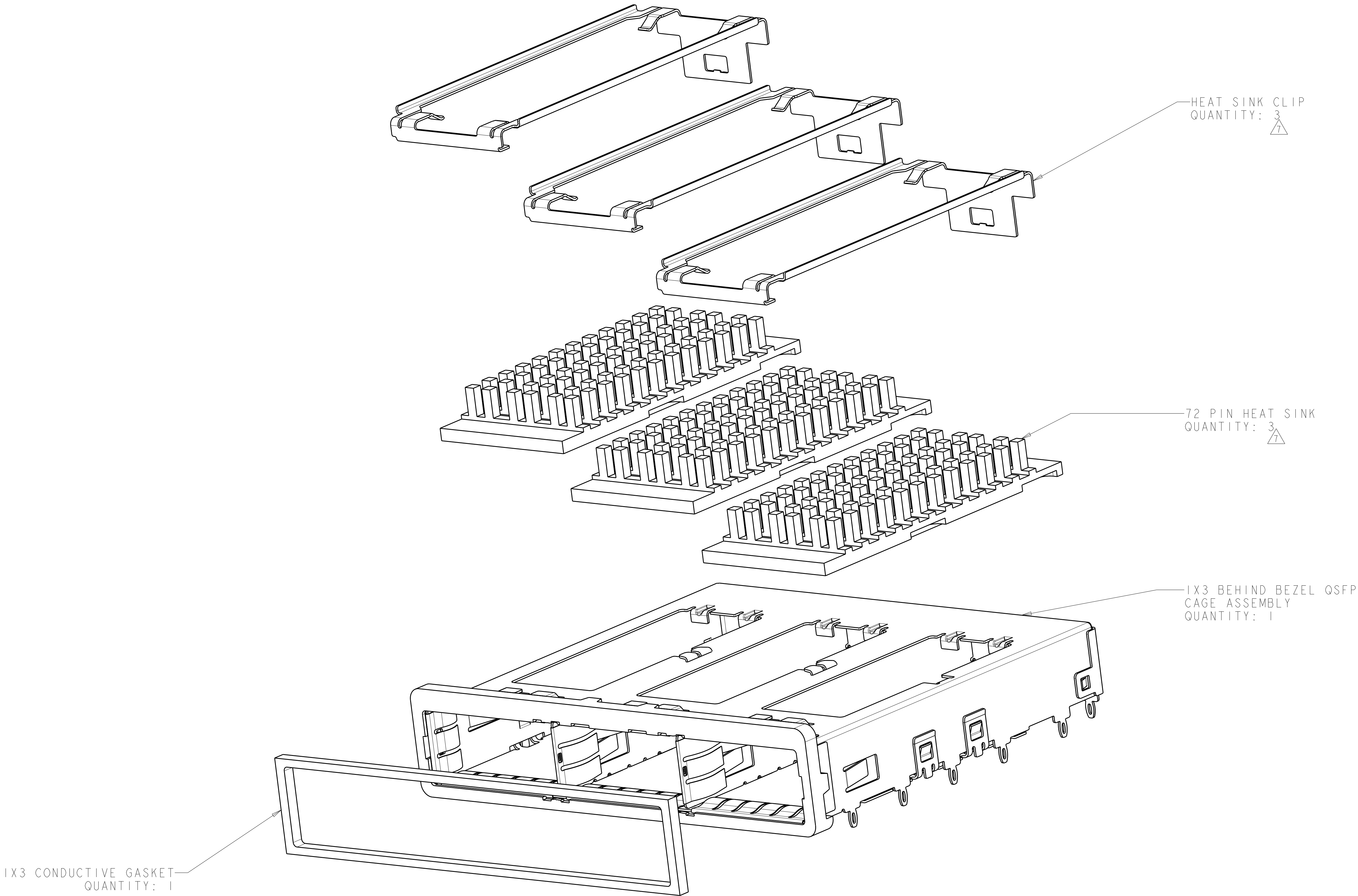
- ³ BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- ⁴ 2D BARCODE AND DATE CODE (YYWWDD) MARKED ON SIDE OF CAGE.
- ⁵ REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- ⁶ FINISH:
EMI SPRINGS: 2µm MINIMUM TIN
FRONT FLANGE: 3µm MINIMUM TIN OVER 1.27µm MINIMUM NICKEL
OVER 5.08µm MINIMUM COPPER
HEAT SINK: NICKEL.



23.0	NETWORKING	2174769-3
16.0	SAN	2174769-2
13.7	PCI	2174769-1
B	HEAT SINK PROFILE	PART NUMBER

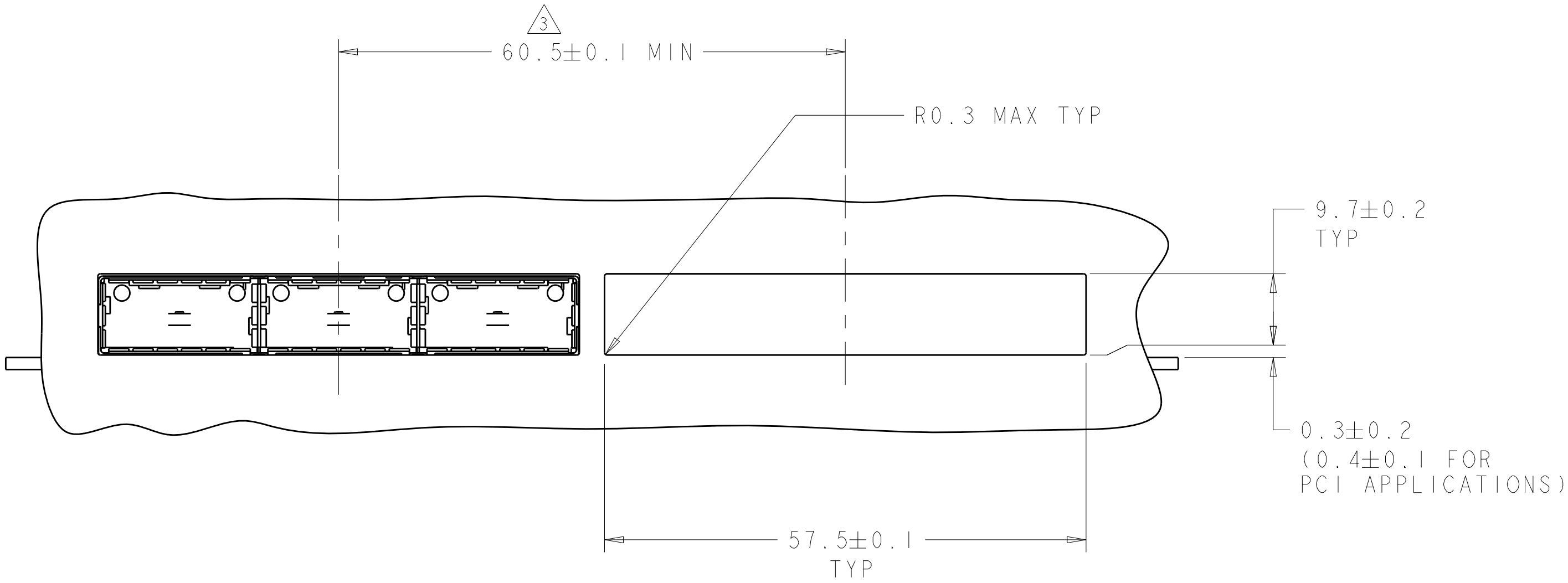
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN CHK DENNY ZHU APVD ALEX CAI	23FEB2012 23FEB2012 23FEB2012	TE Connectivity	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm		0 PLC ±.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±.1		1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSFP	
MATERIAL		FINISH		SIZE CAGE CODE DRAWING NO	
△		△6		A100779C=2174769	
CUSTOMER DRAWING		WEIGHT		RESTRICTED TO	
				SCALE 4:1 SHEET 1 OF 5 REV B	

LOC		DIST		REVISIONS					
GP		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
				-	-	SEE SHEET 1	-	-	-

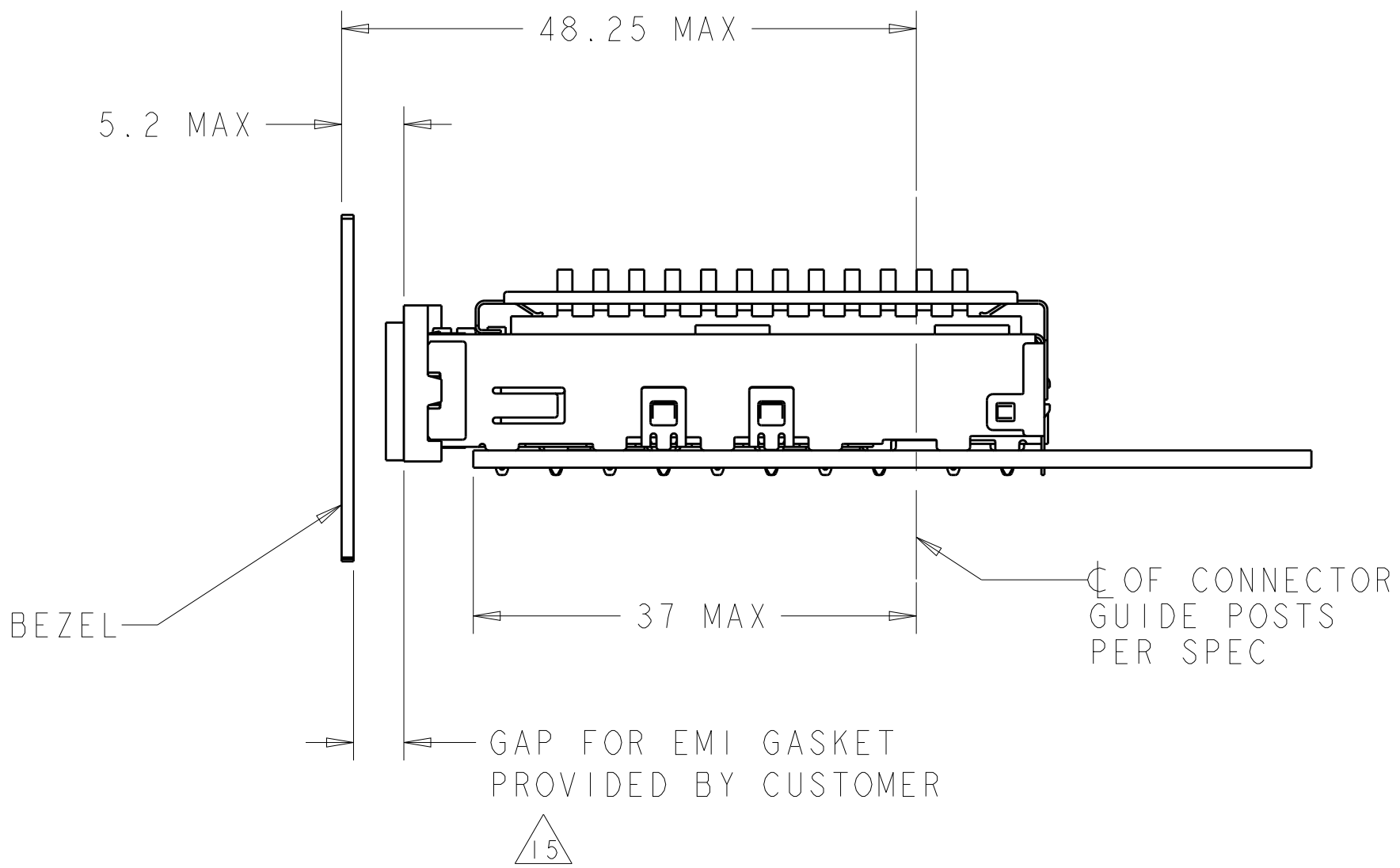
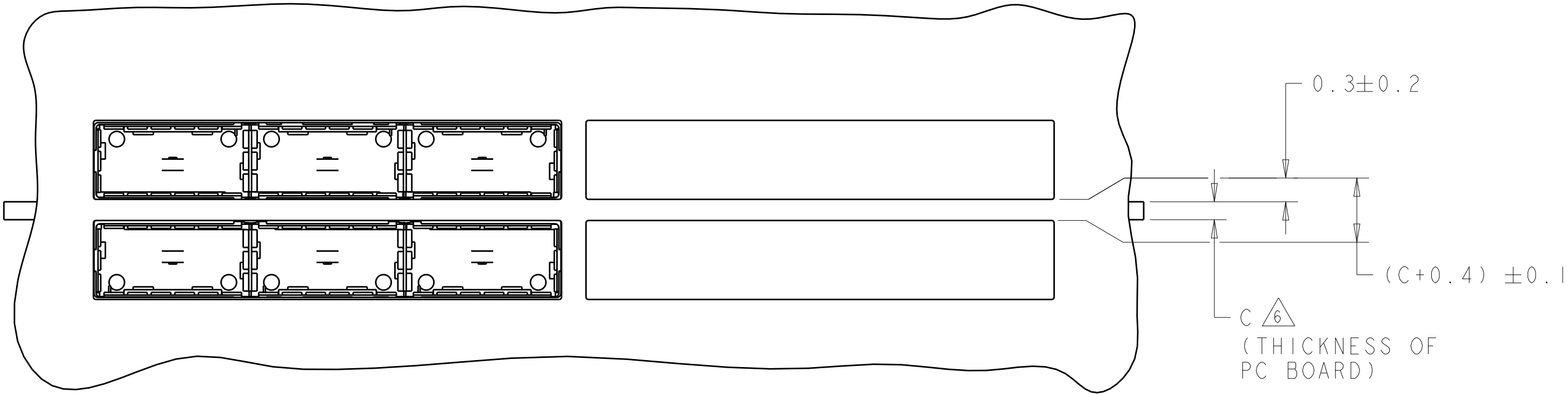


THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN	KINSEN SUN	23FEB2012	 TE Connectivity		
			CHK	DENNY ZHU	23FEB2012			
			APVD	ALEX CAI	23FEB2012	NAME		
						1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSFP		
						SIZE		
						A100779C=2174769		
						RESTRICTED TO		
						-		
						SCALE		
						4:1		
						SHEET		
						2		
						OF		
						5		
						REV		
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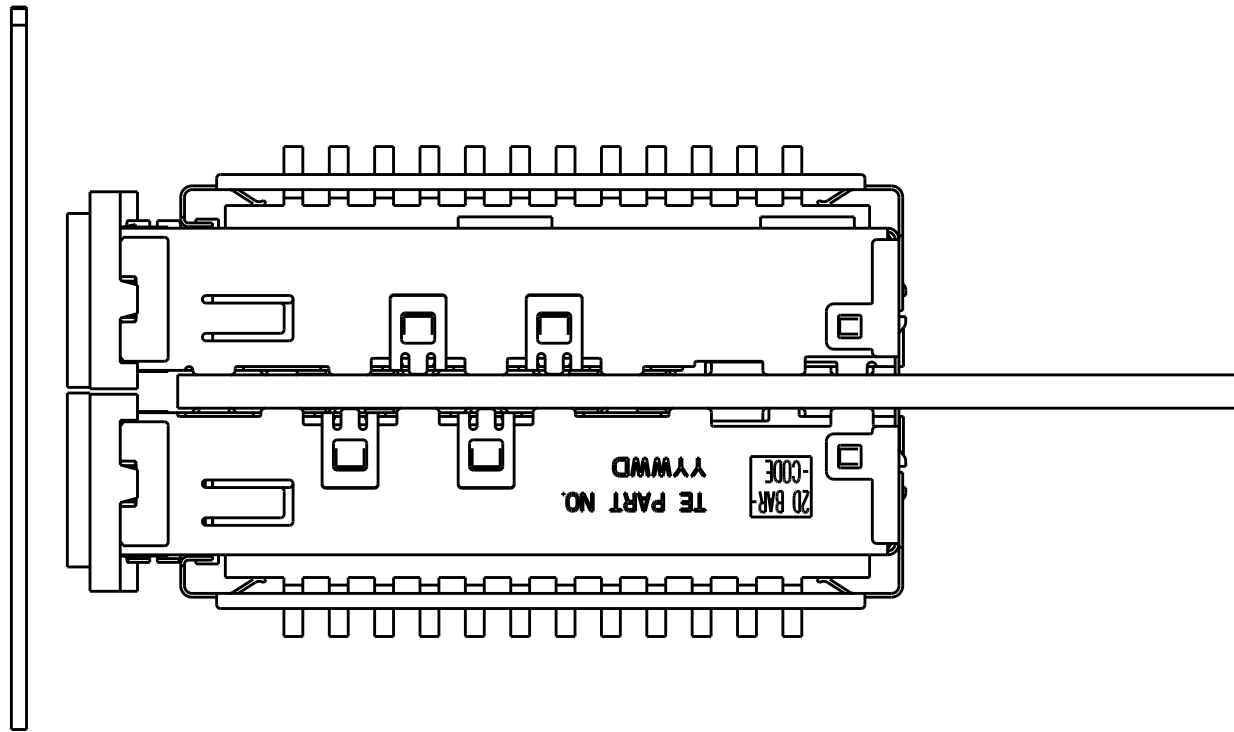
LOC		DIST		REVISIONS					
GP		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
				-	-	SEE SHEET 1	-	-	-



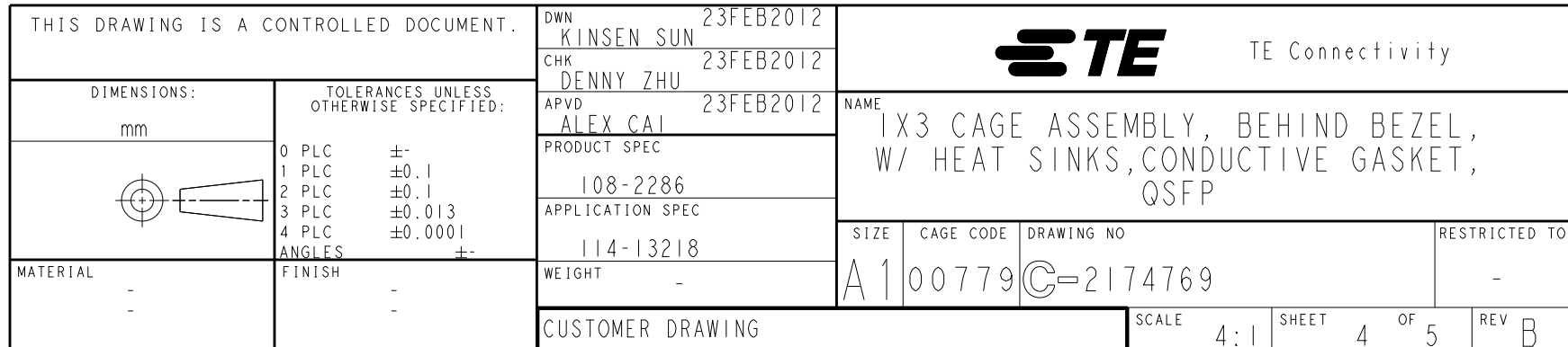
ONE SIDED CONFIGURATION
SCALE 2:1



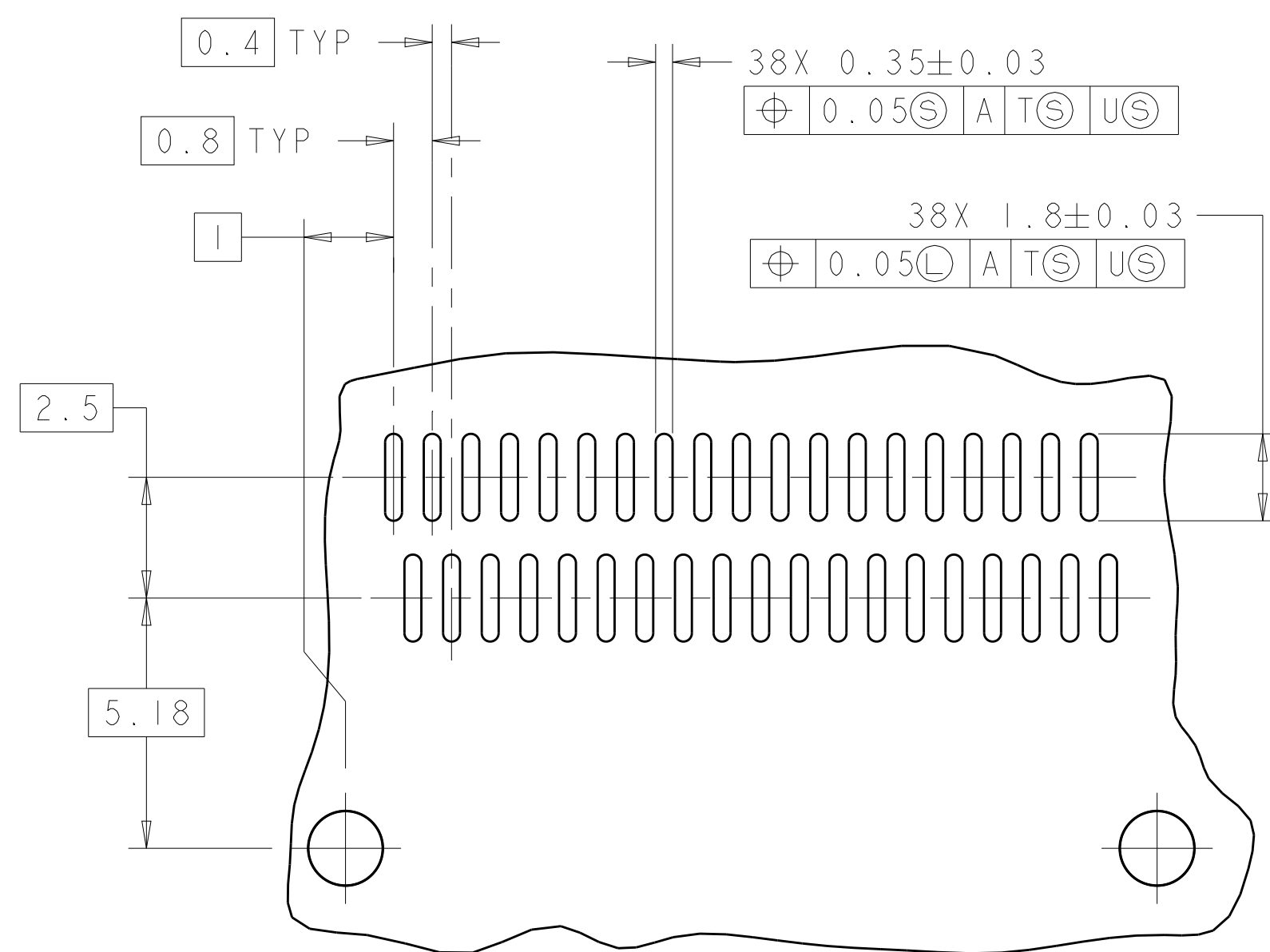
BELLY TO BELLY CONFIGURATION SIMILAR
TO ONE SIDED EXCEPT WHERE NOTED
SCALE 2:1



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	KINSEN SUN	23FEB2012	 TE Connectivity			
		CHK	DENNY ZHU	23FEB2012				
DIMENSIONS:		APVD	ALEX CAI	23FEB2012	NAME			
mm		PRODUCT SPEC			1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSFP			
		APPLICATION SPEC			SIZE			
		114-13218			CAGE CODE			
		FINISH			DRAWING NO			
		CUSTOMER DRAWING			A100779C=2174769			
					RESTRICTED TO			
					SCALE			
					4:1			
					SHEET			
					3			
					OF			
					5			
					REV			
					B			



4805 (3/11)



DETAIL K
3 PLACES
SCALE 8:1

RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 4 FOR COMPONENT
AND TRACE KEEP-OUTS
SCALE 5:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 23FEB2012 KINSEN SUN CHK 23FEB2012 DENNY ZHU APPD 23FEB2012 AILEX CAI		 TE Connectivity	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.0 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.001 ANGLES ±0.001		NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSPF	
		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13218		SIZE A1	
MATERIAL -		FINISH -		DRAWING NO C=2174769	
WEIGHT -		RESTRICTED TO -		SCALE 4:1	
CUSTOMER DRAWING		SHEET 5 OF 5		REV A	