

**AMPHENOL PART NUMBER CONFIGURATION**  
U90-T1X1-1XXX

**HEAT SINK OPTION**

- 6 = PIN STYLE HEAT SINK (NICKEL PLATED) AND CLIP (H=6.5mm: SAN HEIGHT)
- 5 = PIN STYLE HEAT SINK (NICKEL PLATED) AND CLIP (H=4.2mm: PCI HEIGHT)
- 7 = PIN STYLE HEAT SINK (NICKEL PLATED) AND CLIP (H=13.5mm: TALL)
- D = PIN-FIN HEAT SINK (ANODIZED, BLACK) AND CLIP (H=6.5mm: SAN HEIGHT)
- F = PIN-FIN HEAT SINK (ANODIZED, BLACK) AND CLIP (H=4.2mm: PCI HEIGHT)
- E = PIN-FIN HEAT SINK (ANODIZED, BLACK) AND CLIP (H=13.5mm: TALL)
- N = PIN-FIN HEAT SINK (NICKEL PLATED) AND CLIP (H=6.5mm: SAN HEIGHT)
- P = PIN-FIN HEAT SINK (NICKEL PLATED) AND CLIP (H=4.2mm: PCI HEIGHT)
- R = PIN-FIN HEAT SINK (NICKEL PLATED) AND CLIP (H=13.5mm: TALL)

NOTE: FOR DIMENSION "H" LOCATION SEE SHEET 2

**PACKAGING**

- 1 = TRAY PACKAGING W/ HEAT SINK IN SEPARATE TRAY
- A = TRAY PACKAGING W/ HEAT SINK ASSEMBLED
- I = TAPE AND REEL PACKAGING W/ HEAT SINK IN SEPARATE TRAY

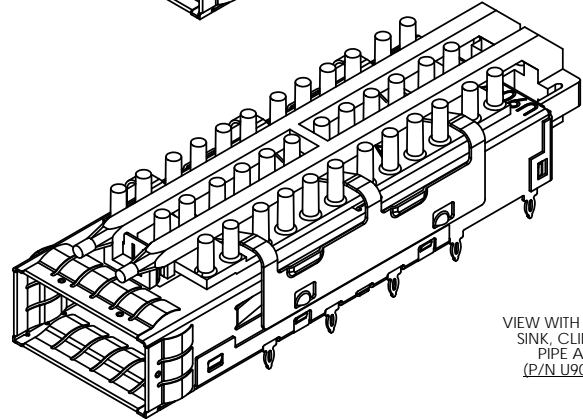
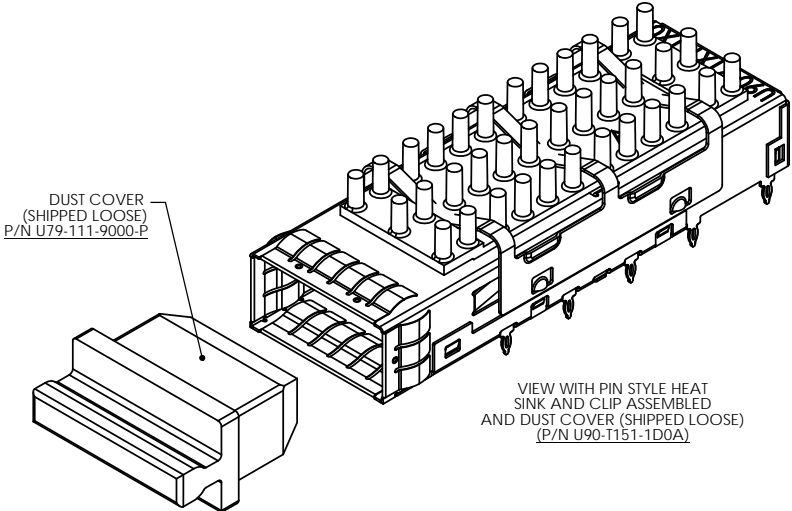
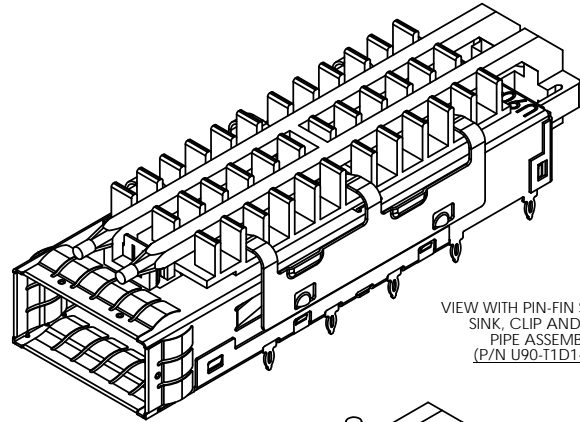
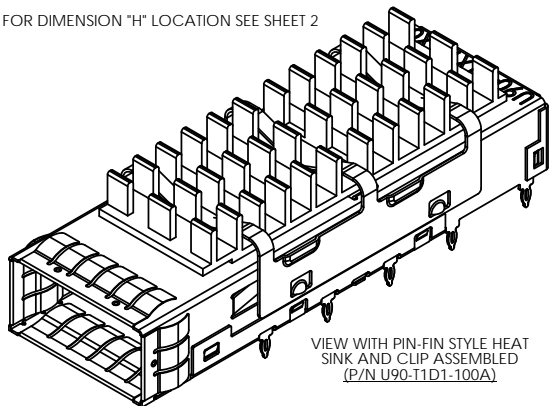
**LIGHT PIPE OPTION**

- 0 = WITHOUT LIGHT PIPE
- 1 = WITH LIGHT PIPE

**OPTIONAL DUST COVER**

- 0 = WITHOUT DUST COVER
- D = WITH DUST COVER SHIPPED AS LOOSE PIECE)

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
A		NEW RELEASE	AUG 14/09	ZLJ
B		DIMENSION ADDED	FEB 22/12	ZLJ

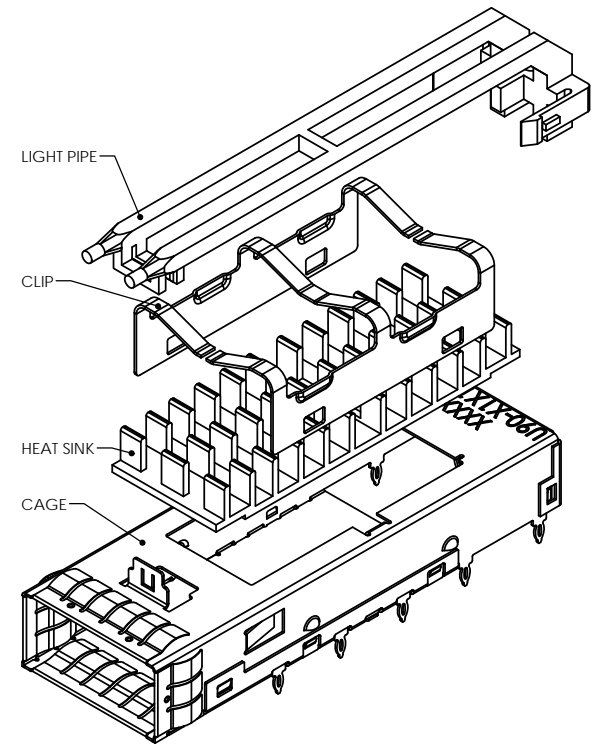
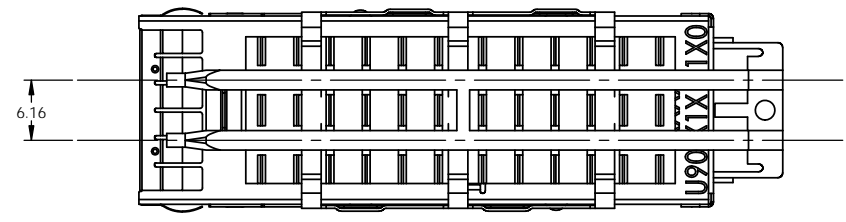


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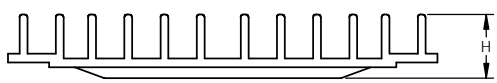
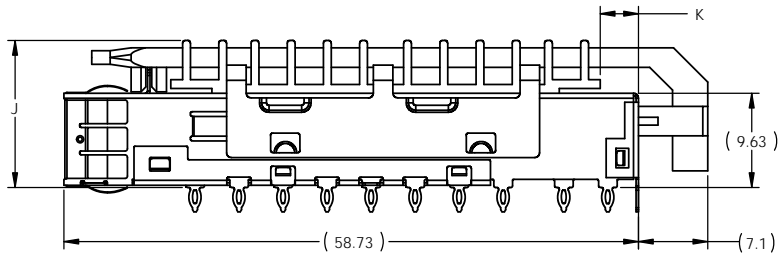
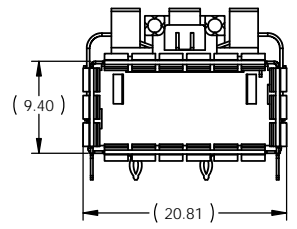
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DECIMALS: X.X ± 0.15 ANGLES: X.XX ± 0.10		DRAWN: J.HU		FEB 22/12			
MATERIAL AND FINISH: SEE NOTE 1		DESIGNED: ZLJ		MAR 17/09		SIZE: A3 DWG. NO: P-U90-T1X1-1XXX REV: B	
REF:		CHECKED: J.SI		MAR 17/09		SCALE: 2:1 PROJECT: SHEET 1 OF 5	
CODE IDENT NO: 03554		E APPD: A.GREEN		MAR 17/09			

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
B		SEE SHEET 1	FEB 22/12	ZLJ



D  
C  
B  
A

D  
C  
B  
A



PART NUMBER	DIM "J"	DIM "H"	DIM "K"
U90-T151-1X0X	15.03	6.50	3.90
U90-T161-1X0X	12.73	4.20	
U90-T171-1X0X	22.03	13.50	
U90-T1D1-1X0X	15.03	6.50	
U90-T1E1-1X0X	12.73	4.20	
U90-T1F1-1X0X	22.03	13.50	
U90-T1N1-1X0X	15.03	6.50	
U90-T1P1-1X0X	12.73	4.20	
U90-T1R1-1X0X	22.03	13.50	

NOTES:

- CAGE AND EMI SPRINGS MATERIAL: COPPER ALLOY  
CAGE PLATING: 3.81µm [100µ"] MIN. NICKEL.  
HEAT SINK CLIP MATERIAL: STEEL ALLOY  
HEAT SINK MATERIAL: ALUMINUM  
LIGHT PIPE MATERIAL: GE LEXAN CLEAR OPTICAL GRADE
- CAGE IS INTENDED TO BE COMPLIANT WITH THE QUAD SMALL FORM-FACTOR PLUGGABLE (QSFP) TRANSCEIVER SPECIFICATION REVISION 1.0.



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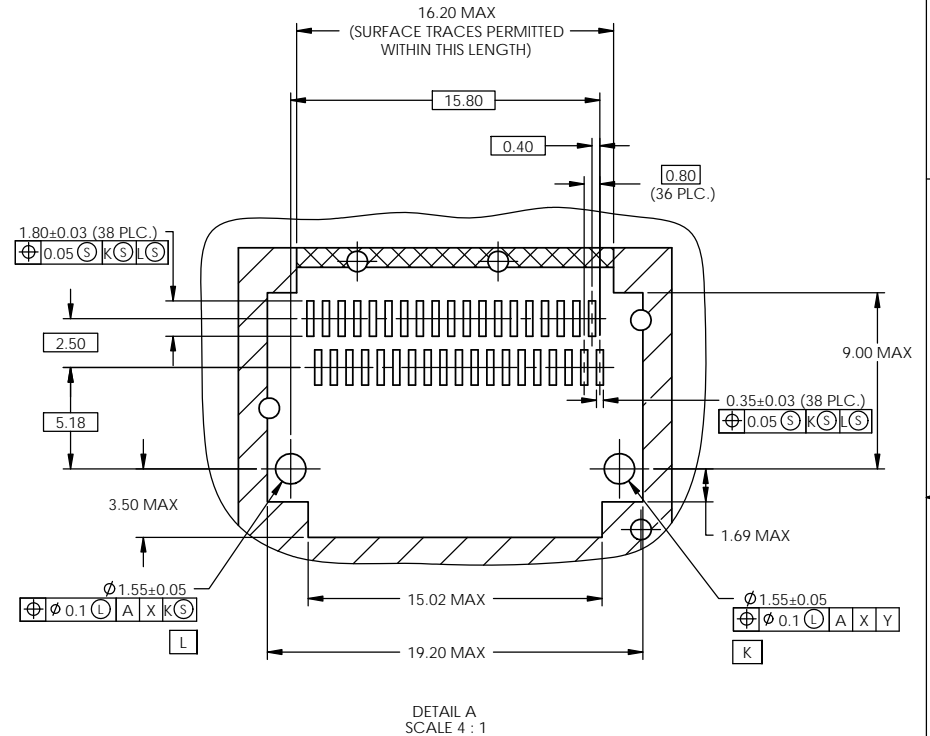
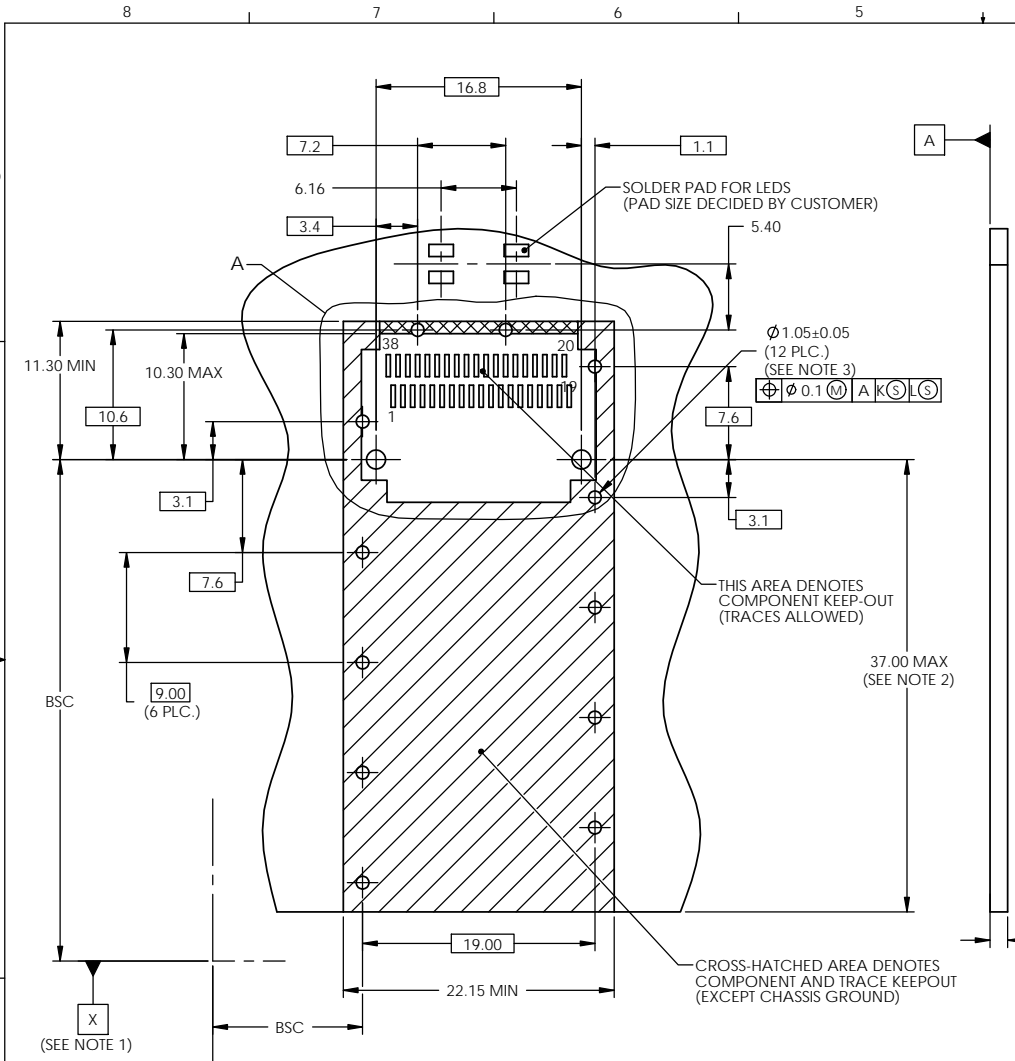
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DECIMALS X.X ± 0.15 X.XX ± 0.10		ANGLES ± 0.5°		DRAWN	J.HU	FEB 22/12	
MATERIAL AND FINISH		DESIGNED		CHECKED		TITLE	
SEE NOTE 1		ZLJ		J.SI		OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE (WITH LOW PROFILE HEAT SINK CLIP)	
REF.		QA APPD		E APPD		SIZE DWG. NO. REV.	
CODE IDENT NO: 03554		A.GREEN		MAR 17/09		A3 P-U90-T1X1-1XXX B	
		SCALE		PROJECT		SHEET	
		2:1				2 OF 5	

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
B		SEE SHEET 1	FEB 22/12	ZLJ



RECOMMENDED PCB BOARD LAYOUT  
(COMPONENT SIDE OF BOARD)

DETAIL A  
SCALE 4 : 1

- NOTES:
- DATUMS X AND Y ESTABLISHED BY CUSTOMER'S FUDICIAL.
  - LOCATION OF EDGE OF PCB IS APPLICATION SPECIFIC.
  - FINISHED HOLE SIZE.

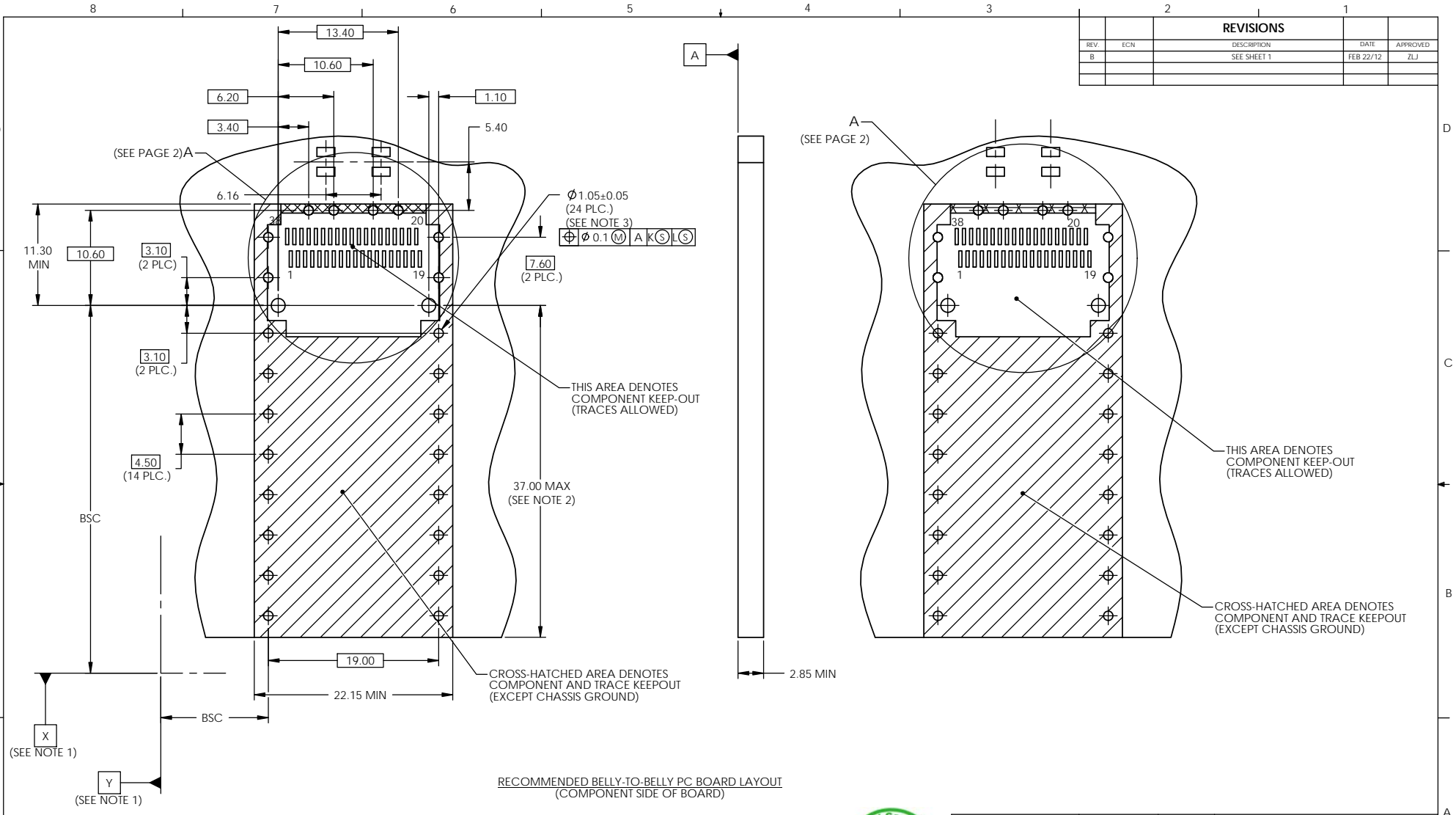
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DECIMALS		DRAWN		J.HU	TITLE	
ANGLES		DESIGNED		ZLJ	OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE (WITH LOW PROFILE HEAT SINK CLIP)	
X.X ± 0.15		CHECKED		J.SI	SIZE	
X.XX ± 0.10		MATERIAL AND FINISH			DWG. NO.	
		SEE NOTE 1			P-U90-T1X1-1XXX	
		E.APPD			REV	
		E.APPD		A.GREEN	B	
CODE IDENT NO: 03554		DWG APPD		MAR 17/09	SCALE	
		SCALE		5:2	PROJECT	
		PROJECT			SHEET	
		SHEET			3 OF 5	

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
B		SEE SHEET 1	FEB 22/12	ZLJ



- NOTES:
- DATUMS X AND Y ESTABLISHED BY CUSTOMER'S FUDICIAL.
  - LOCATION OF EDGE OF PCB IS APPLICATION SPECIFIC.
  - FINISHED HOLE SIZE.

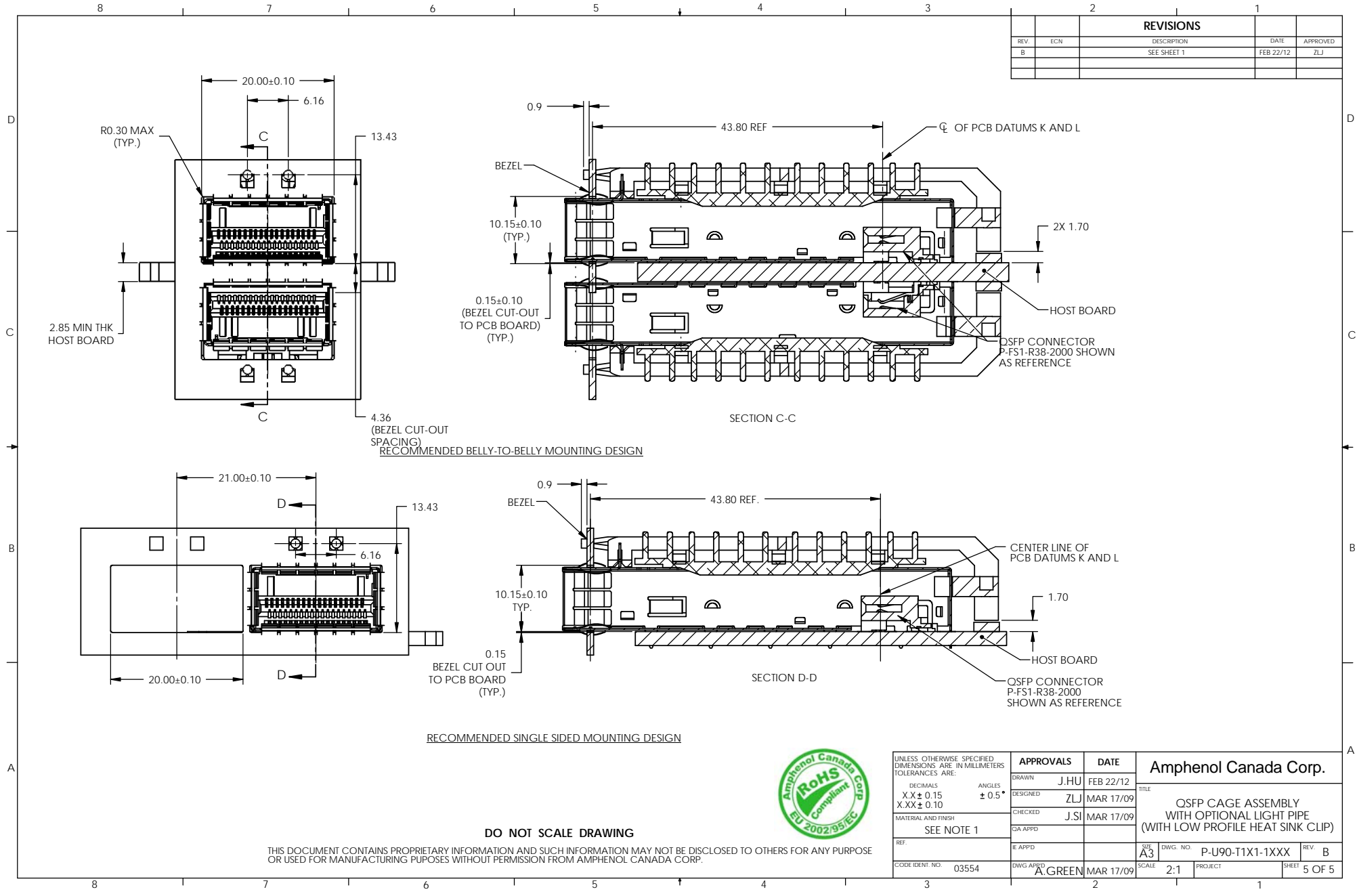
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DRAWN	J.HU	FEB 22/12		TITLE			
DESIGNED	ZLJ	MAR 17/09		OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE (WITH LOW PROFILE HEAT SINK CLIP)			
CHECKED	J.SI	MAR 17/09		SIZE DWG. NO. REV			
MATERIAL AND FINISH	SEE NOTE 1		E.A.P.P.D.		A3		P-U90-T1X1-1XXX B
REF.			E.A.P.P.D.		SCALE		PROJECT SHEET
CODE IDENT NO.	03554	D.W.G. APP'D A.GREEN		MAR 17/09		5:2	4 OF 5

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
B		SEE SHEET 1	FEB 22/12	ZLJ



4.36 (BEZEL CUT-OUT SPACING)  
RECOMMENDED BELLY-TO-BELLY MOUNTING DESIGN

RECOMMENDED SINGLE SIDED MOUNTING DESIGN



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 ANGLES: ± 0.5°  
 MATERIAL AND FINISH: SEE NOTE 1

APPROVALS		DATE
DRAWN	J.HU	FEB 22/12
DESIGNED	ZLJ	MAR 17/09
CHECKED	J.SI	MAR 17/09
QA APPD		
E APPD		
DWG APPD	A.GREEN	MAR 17/09

Amphenol Canada Corp.		
TITLE OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE (WITH LOW PROFILE HEAT SINK CLIP)		
SIZE A3	DWG. NO. P-U90-T1X1-1XXX	REV. B
SCALE 2:1	PROJECT	SHEET 5 OF 5