

AMPHENOL PART NUMBER CONFIGURATION
U90 - A 1 X 1 - 1 X 0 X

HEAT SINK OPTION

- 0 = NO HEAT SINK OR CLIP SHIPPED, CLOSE TOP
- 1 = NO HEAT SINK OR CLIP SHIPPED, OPEN TOP
- 2 = STANDARD HEAT SINK (HARD COAT ANODIZED) AND CLIP (H=6.5mm; SAN HEIGHT)
- 3 = STANDARD HEAT SINK (HARD COAT ANODIZED) AND CLIP (H=4.2mm; PCI HEIGHT)
- 4 = STANDARD HEAT SINK (HARD COAT ANODIZED) AND CLIP (H=13.5mm; TALL)
- A = STANDARD HEAT SINK (NICKEL PLATED) AND CLIP (H=6.5mm; SAN HEIGHT)
- B = STANDARD HEAT SINK (NICKEL PLATED) AND CLIP (H=4.2mm; PCI HEIGHT)
- C = STANDARD HEAT SINK (NICKEL PLATED) AND CLIP (H=13.5mm; TALL)

NOTE: FOR PIN STYLE HEAT SINKS REFER TO DRAWING NUMBER: P-U90-H1X1-1XXX

PACKAGING

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

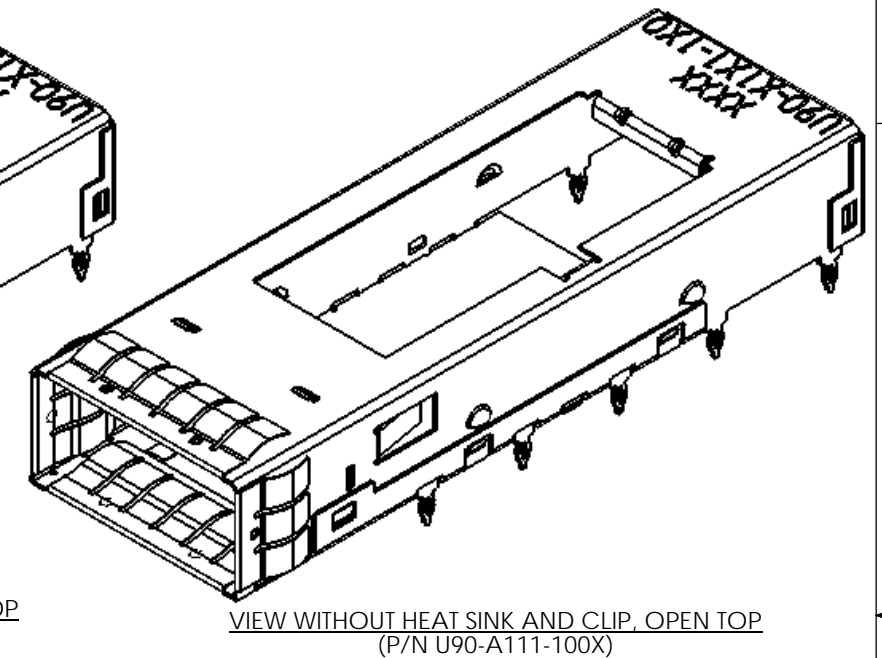
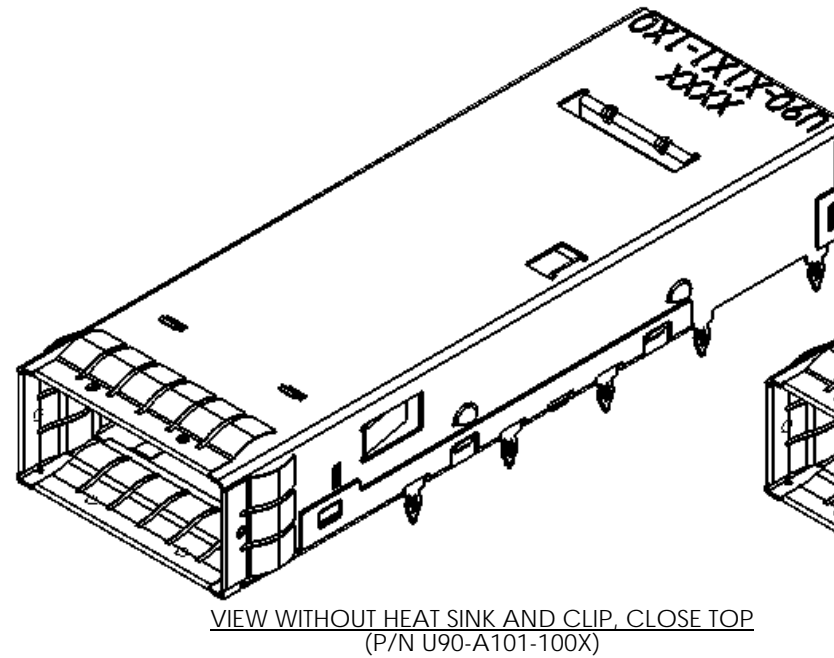
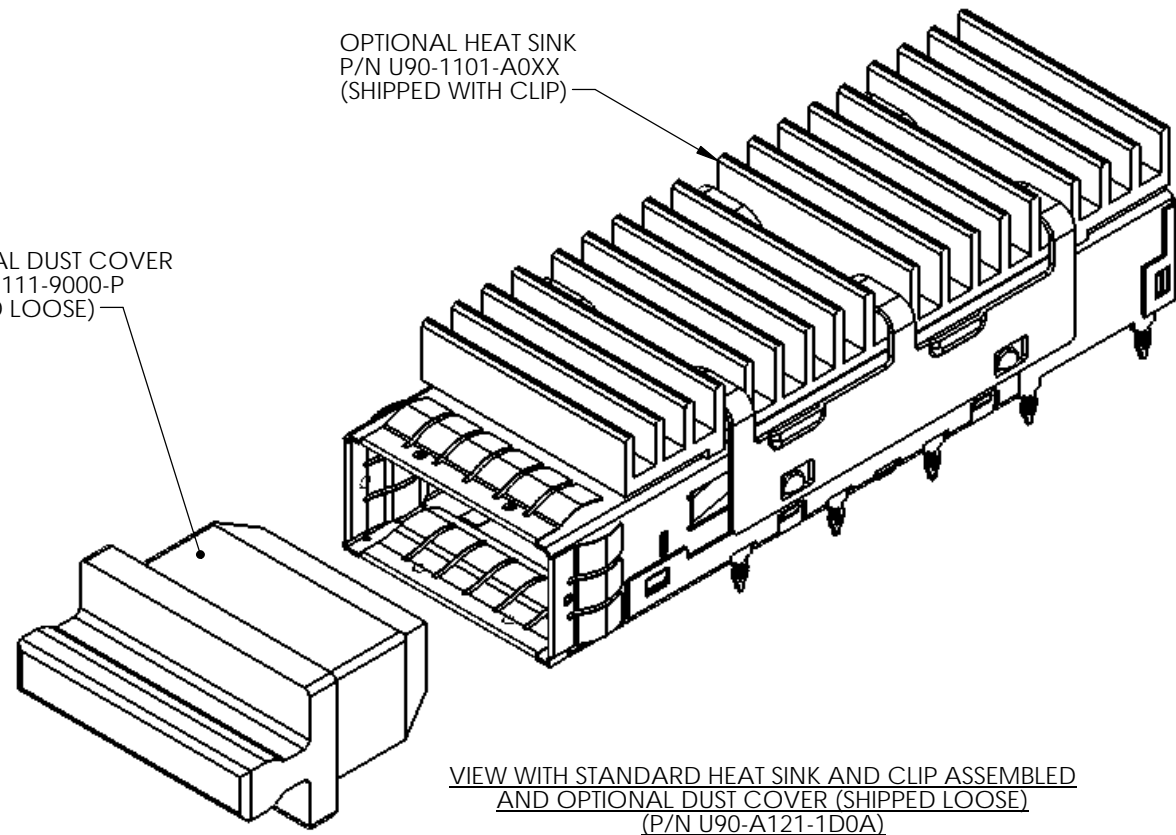
OPTIONAL DUST COVER

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

REVISIONS				
REV.	ECN	DESCRIPTION	DATE	APPROVED
F		NOTE ADDED "FOR PIN STYLE REFER TO U90-H1X1-1XXX"	JAN 12/09	ZLJ
G		REAR STOP MODIFIED	SEP 18/09	ZLJ
H		ADD PIN LENGTH DIMENSION 2.50	APR 10/13	ZLJ
J		NEW PART NUMBER U90-A101-1001 ADDED	OCT 06/13	ZLJ

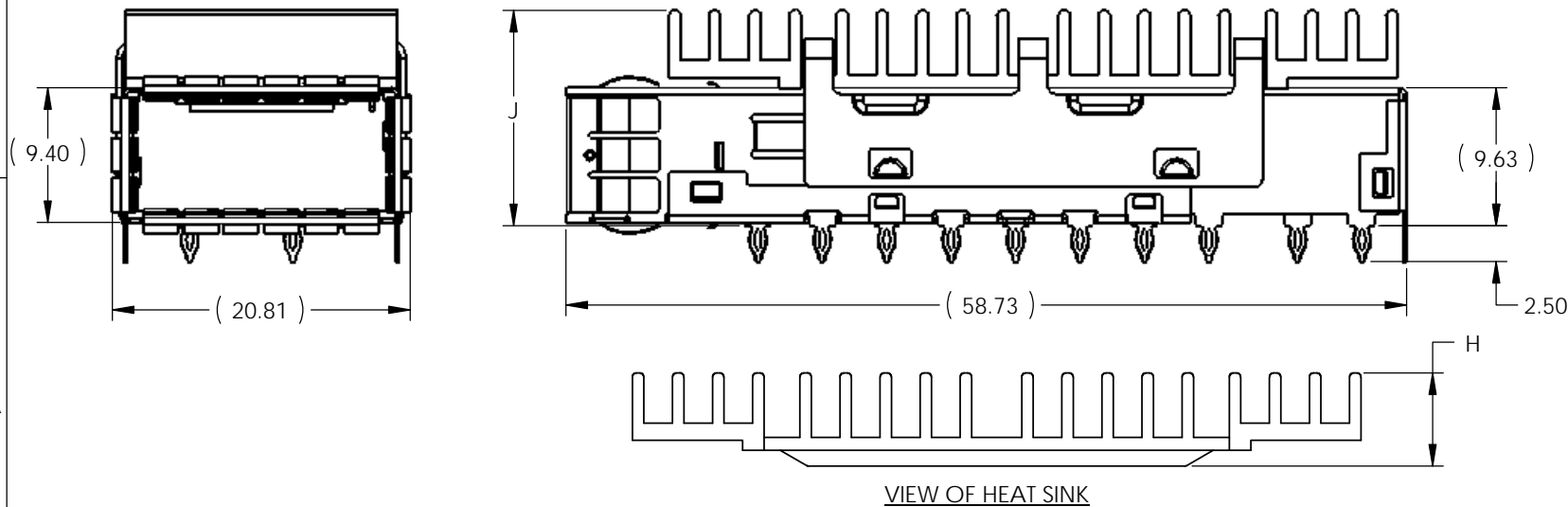
OPTIONAL HEAT SINK
P/N U90-1101-A0XX
(SHIPPED WITH CLIP)

OPTIONAL DUST COVER
P/N U79-111-9000-P
(SHIPPED LOOSE)



NOTES:

- CAGE AND EMI SPRINGS MATERIAL: COPPER ALLOY
HEAT SINK CLIP MATERIAL: STEEL ALLOY
HEAT SINK MATERIAL: ALUMINUM
CAGE PLATING: 3.81µm [100µ"] MIN. NICKEL.
- CAGE IS INTENDED TO BE COMPLIANT WITH THE QUAD SMALL FORM-FACTOR PLUGGABLE (QSFP) TRANSCEIVER SPECIFICATION REVISION 1.0.
- HEAT SINK, HEAT SINK CLIP AND DUST COVER ARE SHIPPED LOOSE PIECE.



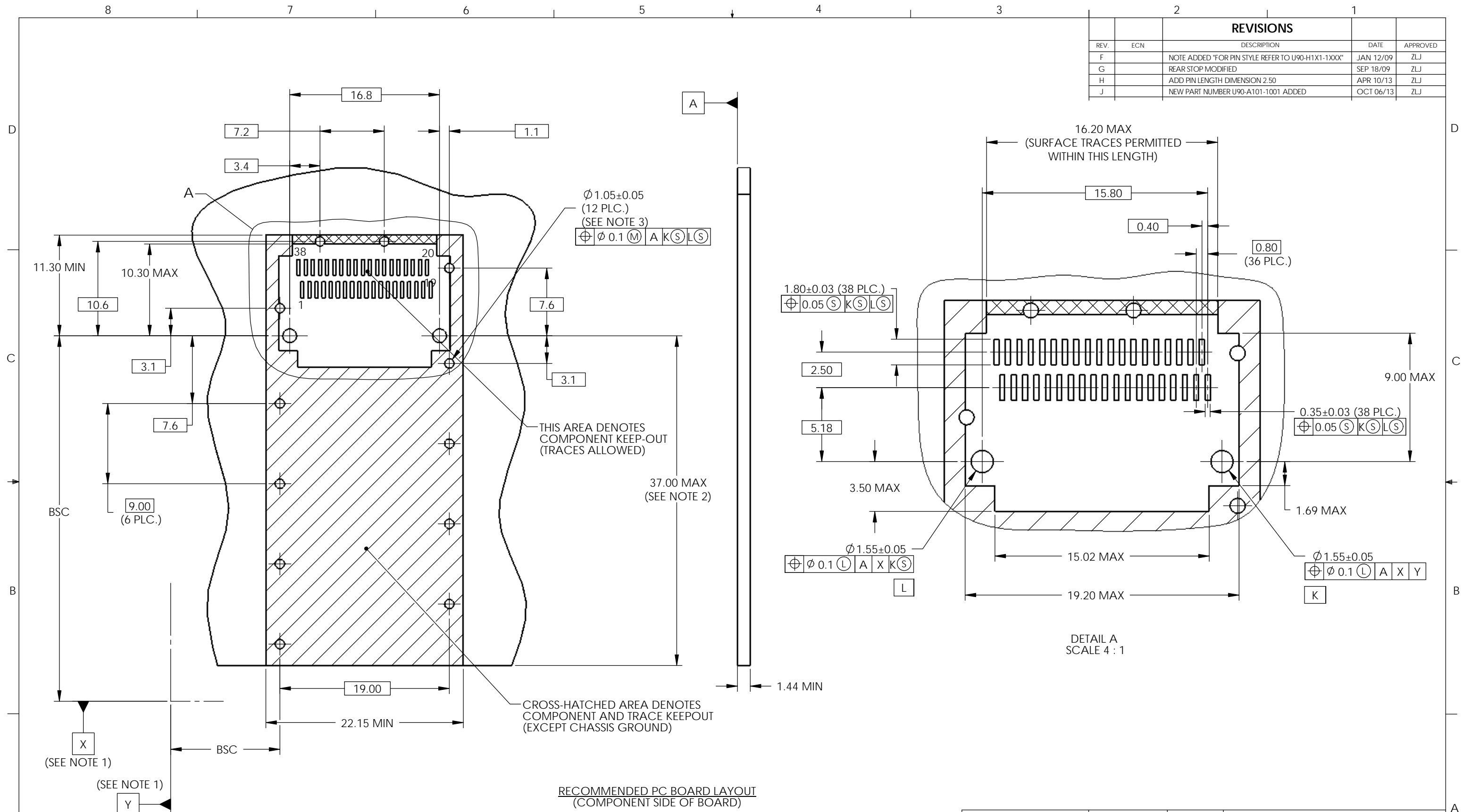
PART NUMBER	DIM "J"	DIM "H"	HEAT SINK & CLIP OPTION
U90-A121-1X0X	15.03	6.50	IF HEAT SINK AND CLIP ARE SHIPPED LOOSE SEE DRAWING P-U90-1101-AXX0-BP
U90-A131-1X0X	12.73	4.20	
U90-A141-1X0X	22.03	13.50	
U90-A1A1-1X0X	15.03	6.50	
U90-A1B1-1X0X	12.73	4.20	
U90-A1C1-1X0X	22.03	13.50	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE		Amphenol High Speed Interconnects A Division of Amphenol Corp. www.amphenol-highspeed.com	
DECIMALS	ANGLES	DRAWN	M.LONG	DESIGNED	M.LONG	DEC04/06	TITLE
X.X ± 0.15	± 0.5°	CHECKED	J.SI	QA APP'D			OSFP CAGE ASSEMBLY
X.XX ± 0.10		IE APP'D					
MATERIAL AND FINISH	SEE NOTE 1	DWG APP'D	A.GREEN	DEC04/06	SCALE	2:1	PROJECT
REF.		SIZE	A3	DWG. NO.	P-U90-A1X1-1X0X	REV.	J
CODE IDENT. NO.	03554	SCALE	2:1	PROJECT		SHEET	1 OF 4

DO NOT SCALE DRAWING

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED FOR MANUFACTURING PURPOSES WITHOUT PERMISSION FROM AMPHENOL CANADA CORP.

REVISIONS				
REV.	ECN	DESCRIPTION	DATE	APPROVED
F		NOTE ADDED *FOR PIN STYLE REFER TO U90-H1X1-1XXX*	JAN 12/09	ZLJ
G		REAR STOP MODIFIED	SEP 18/09	ZLJ
H		ADD PIN LENGTH DIMENSION 2.50	APR 10/13	ZLJ
J		NEW PART NUMBER U90-A101-1001 ADDED	OCT 06/13	ZLJ



RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE OF BOARD)

DETAIL A
SCALE 4 : 1

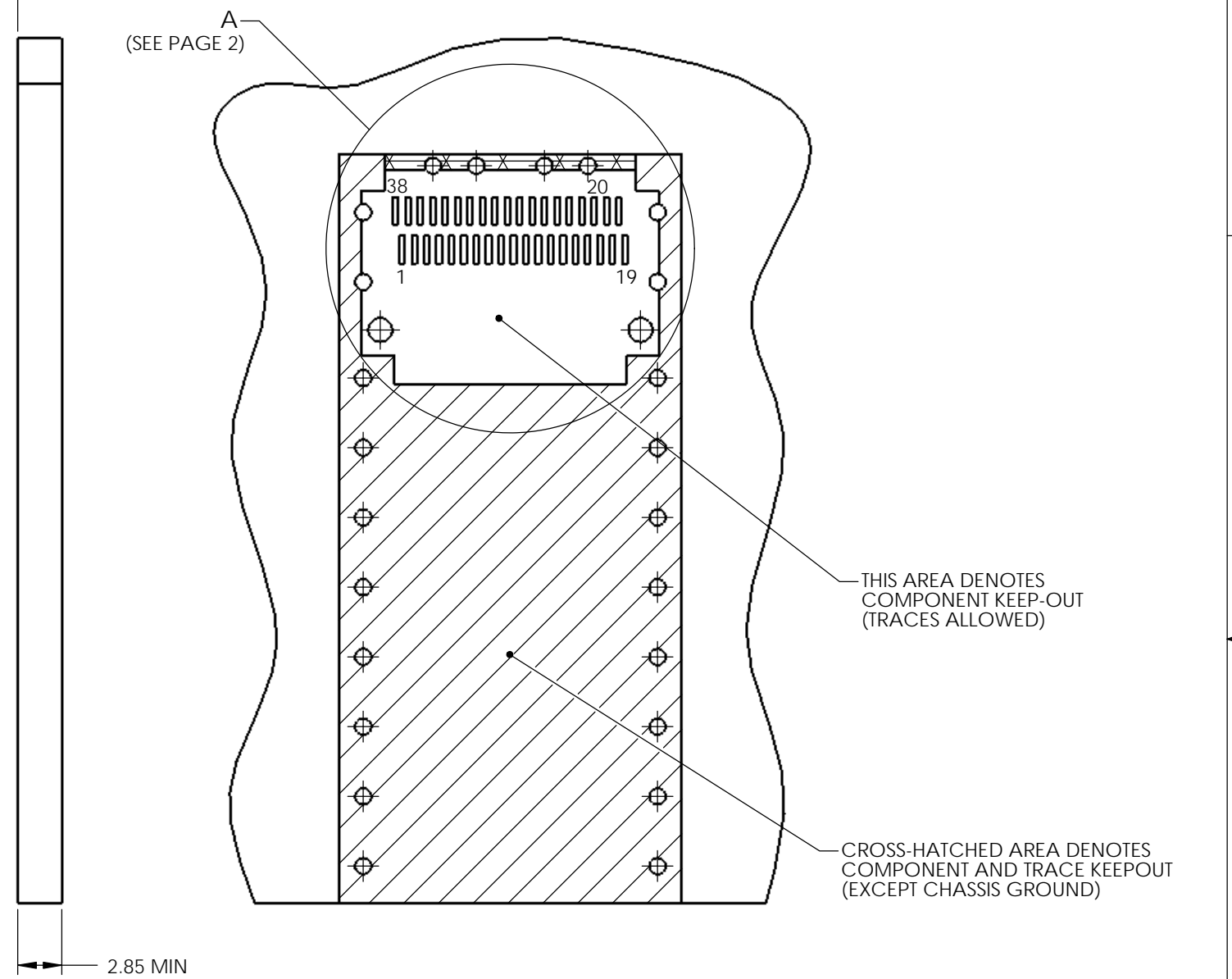
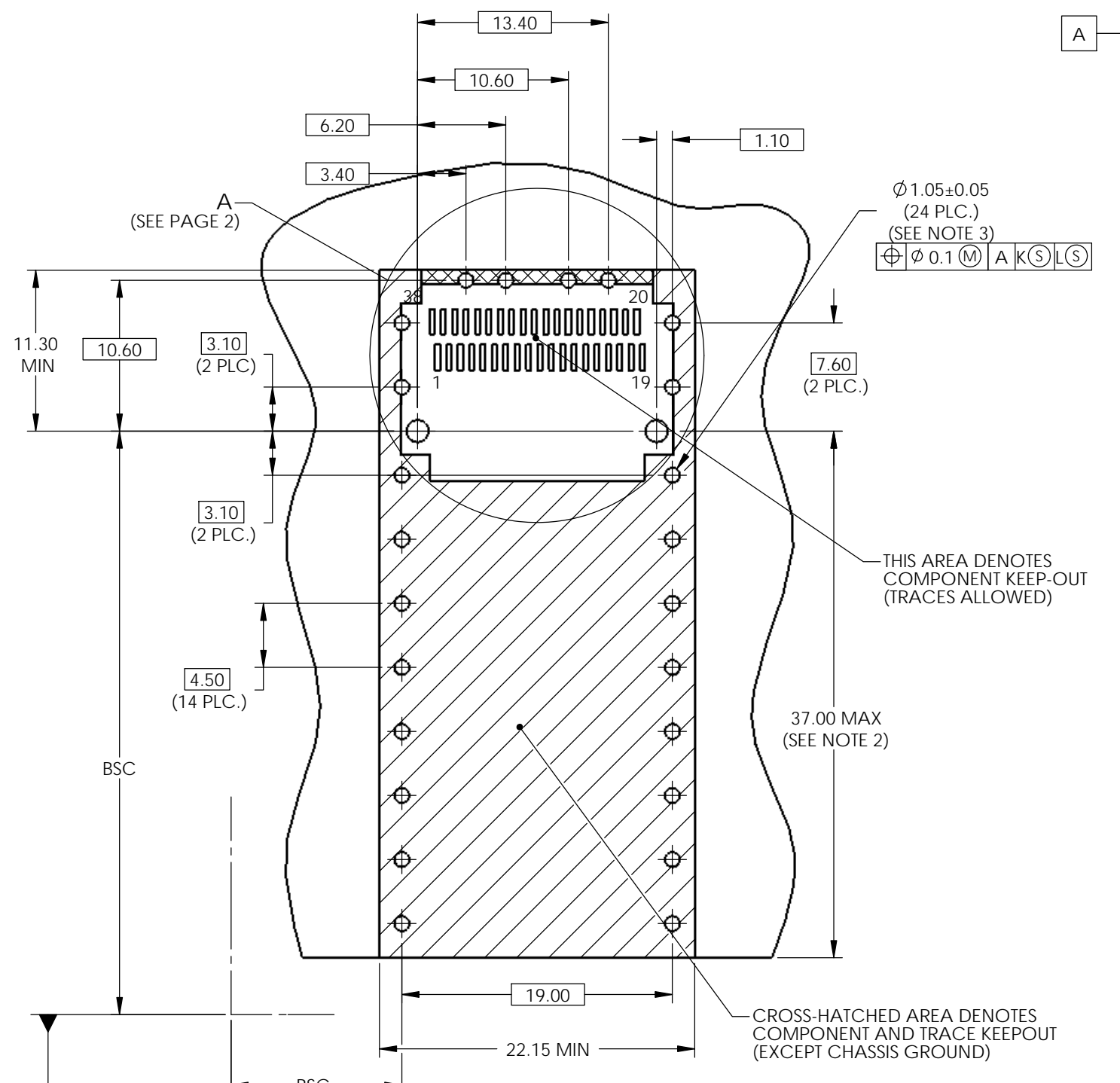
- NOTES:
- DATUMS X AND Y ESTABLISHED BY CUSTOMER'S FUDUCIAL.
 - LOCATION OF EDGE OF PCB IS APPLICATION SPECIFIC.
 - FINISHED HOLE SIZE.

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	DRAWN M.LONG	DEC04/06		
	DESIGNED M.LONG	DEC04/06	TITLE QSFP CAGE ASSEMBLY	
	CHECKED J.SI	DEC04/06		
MATERIAL AND FINISH SEE NOTE 1	QA APPD		SIZE A3	DWG. NO P-U90-A1X1-1X0X
REF.	IE APPD		SCALE 5:2	PROJECT
CODE IDENT. NO. 03554	DWG APPD A.GREEN	DEC04/06	SHEET 2 OF 4	REV. J

REVISIONS				
REV.	ECN	DESCRIPTION	DATE	APPROVED
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G		REAR STOP MODIFIED	SEP 18/09	ZLJ
H		ADD PIN LENGTH DIMENSION 2.50	APR 10/13	ZLJ
J		NEW PART NUMBER U90-A101-1001 ADDED	OCT 06/13	ZLJ



RECOMMENDED BELLY-TO-BELLY PCB BOARD LAYOUT
(COMPONENT SIDE OF BOARD)

NOTES:

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

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DECIMALS	ANGLES	DRAWN	M.LONG	DEC04/06	TITLE		
X.X ± 0.15	± 0.5°	DESIGNED	M.LONG	DEC04/06	OSFP CAGE ASSEMBLY		
X.XX ± 0.10		CHECKED	J.SI	DEC04/06			
MATERIAL AND FINISH		QA APPD					
SEE NOTE 1							
REF.		IE APPD				SIZE	DWG. NO
						A3	P-U90-A1X1-1X0X
CODE IDENT. NO		DWG APPD		SCALE		PROJECT	SHEET
03554		A.GREEN		5:2			3 OF 4
		DEC04/06					