

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

HEATSINK OPTION

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

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

PACKAGING

- I = TRAY PACKAGING W/ HEATSINK IN SEPARATE TRAY
- A = TRAY PACKAGING W/ HEATSINK ASSEMBLED
- T = TAPE AND REEL PACKAGING W/ HEATSINK IN SEPARATE TRAY

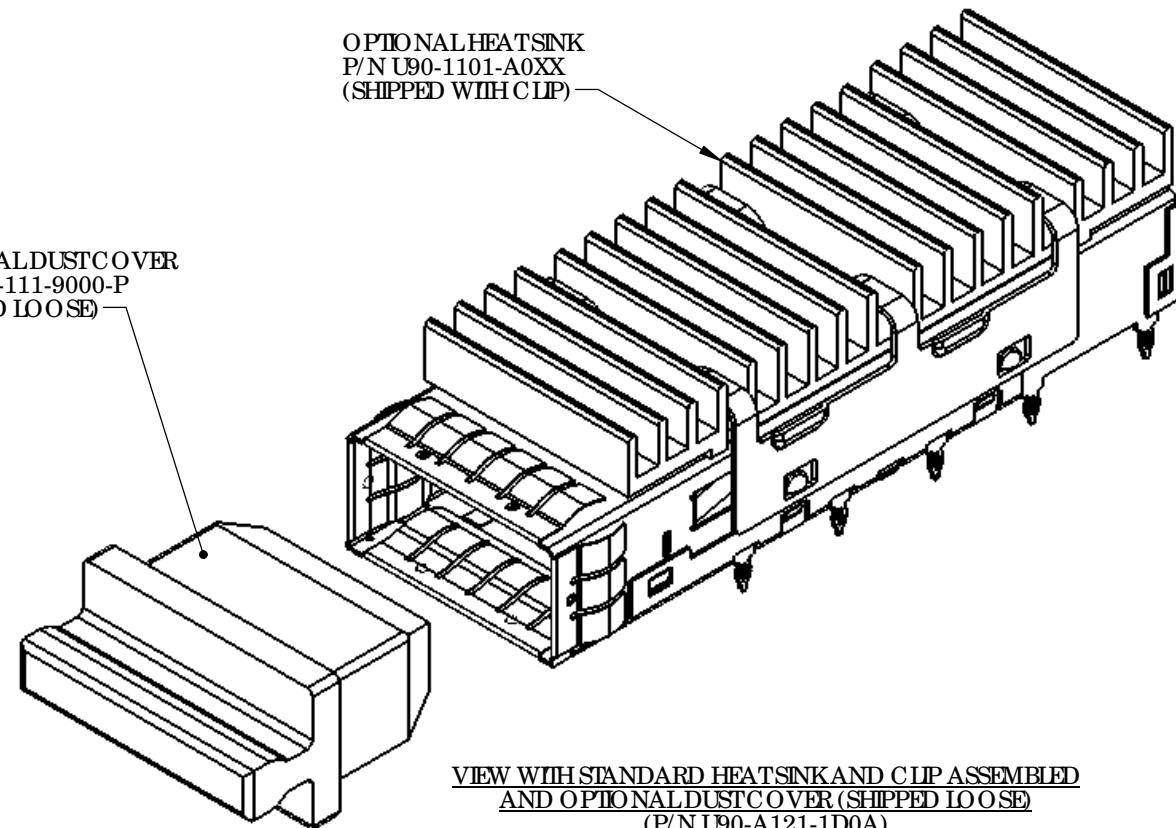
OPTIONAL DUST COVER

- 0 = WITH OUT DUST COVER
- D = WITH DUST COVER (SHIPPED LOOSE PIECE)

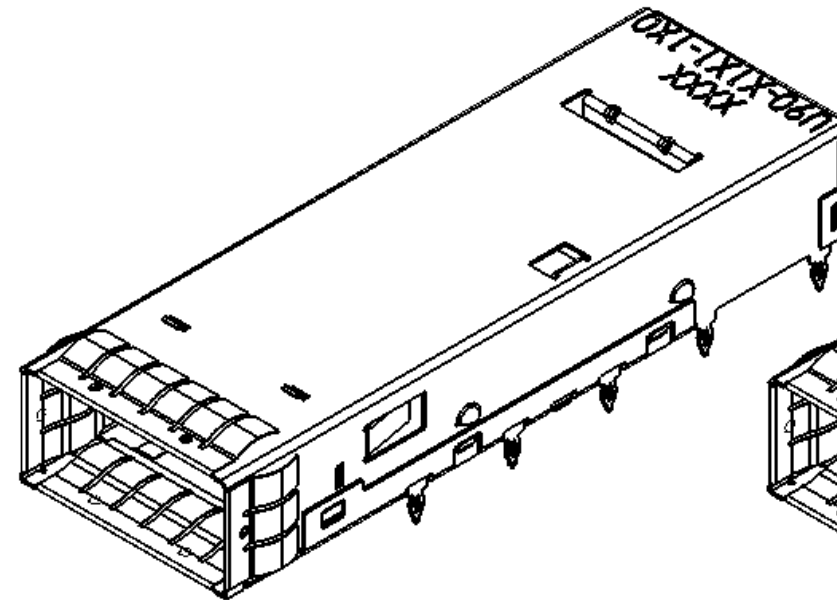
REVISIONS				
REV.	ECN	DESCRIPTION	DATE	APPROVED
F		NOTE ADDED FOR PIN STYLE REFER TO U90-H1X1-1XXX	JAN 12/09	ZLJ
G		REVISION MODIFIED	SEP 18/09	ZLJ
H		ADD PIN LENGTH DIMENSION 2.50	APR 10/13	ZLJ
J		NEW PART NUMBER U90-A101-1001 ADDED	OCT06/13	ZLJ

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

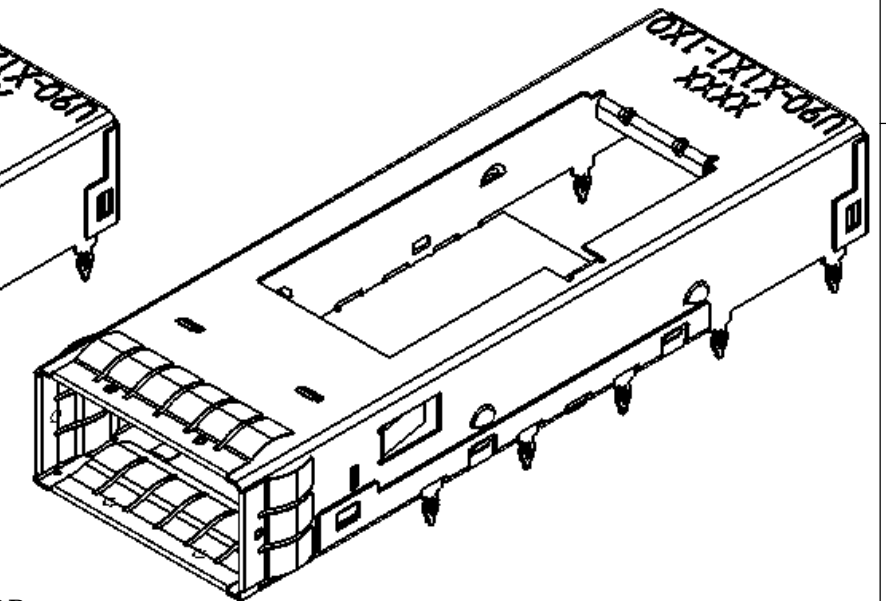
OPTIONAL DUST COVER
P/N U79-111-9000-P
(SHIPPED LOOSE)



VIEW WITH STANDARD HEATSINK AND CLIP ASSEMBLED AND OPTIONAL DUST COVER (SHIPPED LOOSE)
(P/N U90-A121-1D0A)



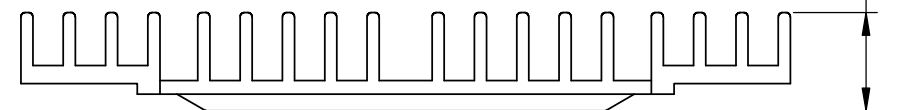
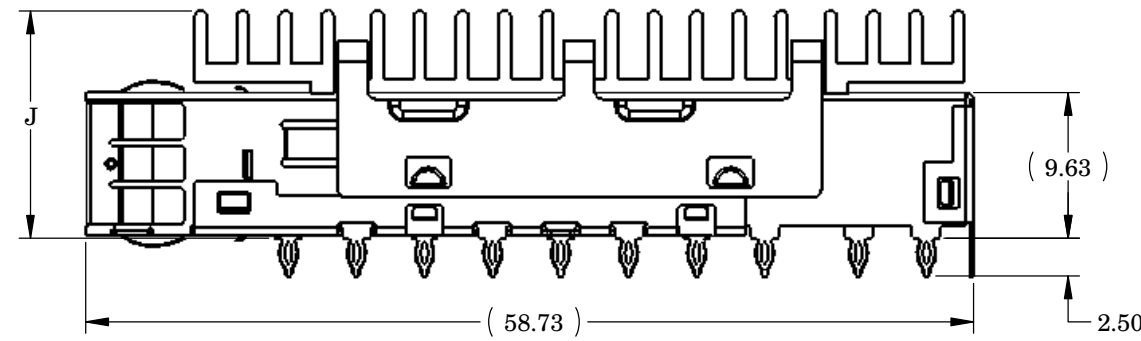
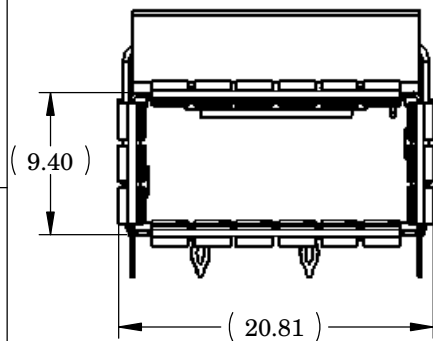
VIEW WITH OUT HEATSINK AND CLIP, CLOSE TOP
(P/N U90-A101-100X)



VIEW WITH OUT HEATSINK AND CLIP, OPEN TOP
(P/N U90-A111-100X)

NOTES

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



VIEW OF HEATSINK

DO NOT SCALE DRAWING

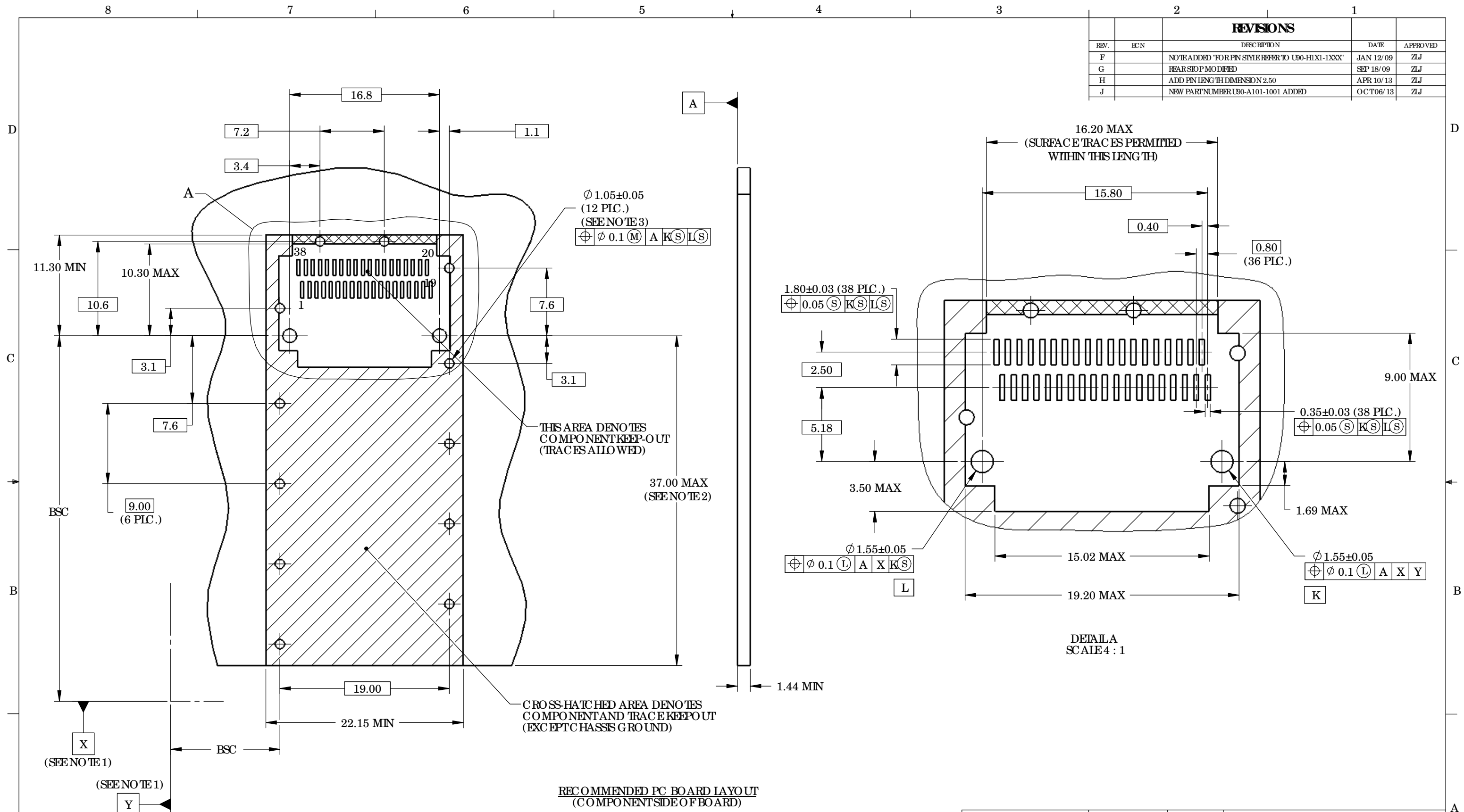
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PART NUMBER	DIM "J"	DIM "H"	HEATSINK & CLIP OPTION
U90-A121-1X0X	15.03	6.50	IF HEATSINK AND CLIP ARE SHIPPED LOOSE SEE DRAWING P-U90-1101-AXX0-BP
U90-A131-1X0X	12.73	4.20	
U90-A141-1X0X	22.03	13.50	
U90-A1A1-1X0X	15.03	6.50	
U90-A1B1-1X0X	12.73	4.20	
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	DATE	DESIGNED	DATE		
XX ± 0.15	± 0.5°	M. LONG	DEC 04/06	M. LONG	DEC 04/06	QSFP CAGE ASSEMBLY	
XXX ± 0.10		CHECKED	J. SI	QA APPD			
MATERIAL AND FINISH		REF.		EAPPD			
SEE NOTE 1						A3	P-U90-A1X1-1X0X
CODE IDENT. NO.	03554	DWG APPD		DATE		SCALE	PROJECT
		A. GREEN		DEC 04/06		2:1	SHEET 1 OF 4

REVISIONS				
REV.	ECN	DESCRIPTION	DATE	APPROVED
F		NOTE ADDED FOR PIN STYLE REFER TO U90-H1X1-1XXX	JAN 12/09	ZLJ
G		REVISION MODIFIED	SEP 18/09	ZLJ
H		ADD PIN LENGTH DIMENSION 2.50	APR 10/13	ZLJ
J		NEW PART NUMBER U90-A101-1001 ADDED	OCT06/13	ZLJ



RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE OF BOARD)

DETAIL A
SCALE 4 : 1

NOTES:

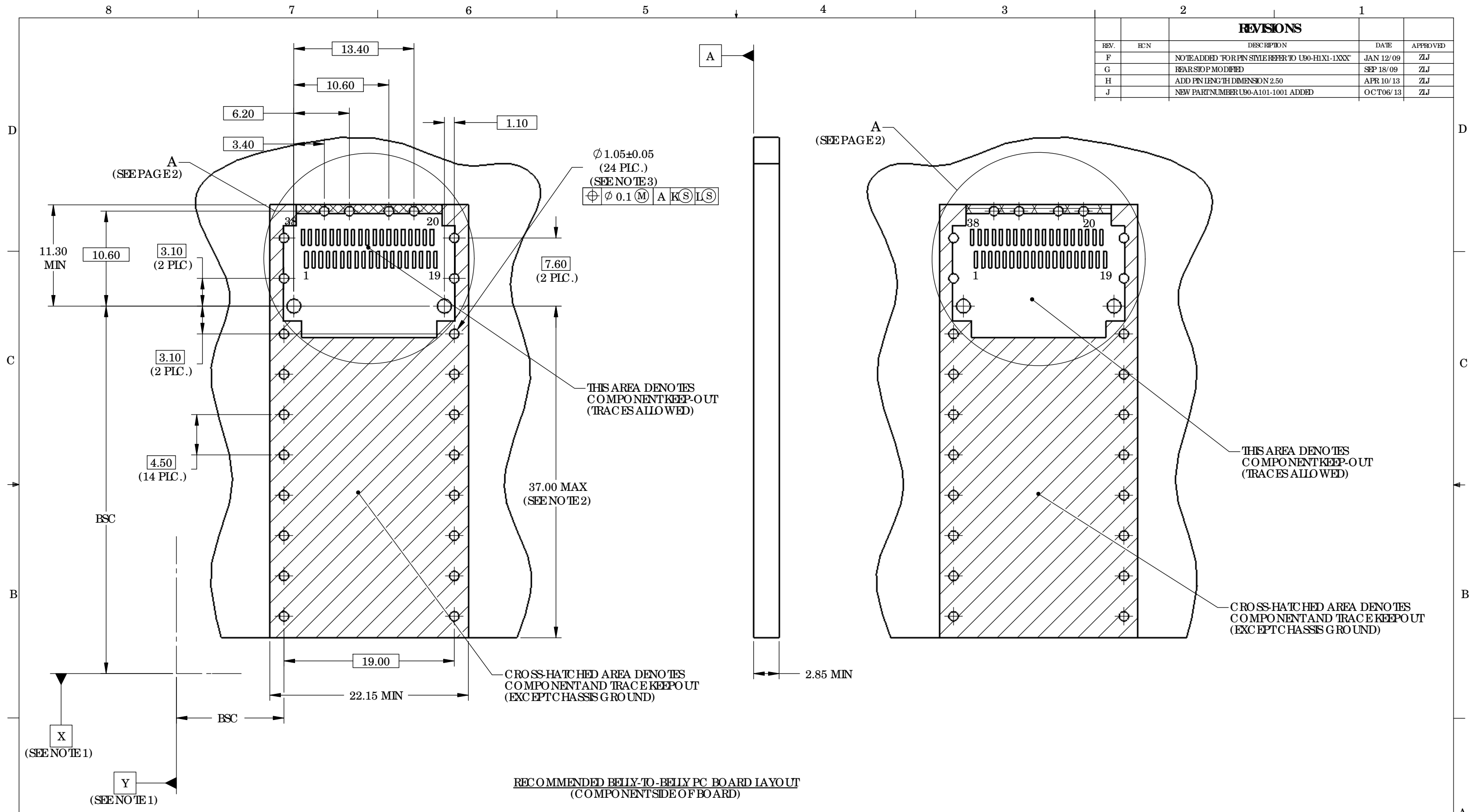
- DATUMS X AND Y ESTABLISHED BY CUSTOMER'S FUDUCIAL
- LOCATION OF EDGE OF PCB IS APPLICATION SPECIFIC.
- FINISHED HOLE SIZE

DO NOT SCALE DRAWING

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DECIMALS	ANGLES	DRAWN	M.LONG	DEC 04/06	TITLE		
XX ± 0.15	± 0.5°	DESIGNED	M.LONG	DEC 04/06	QSPC CAGE ASSEMBLY		
XXX ± 0.10		CHECKED	J.SI	DEC 04/06			
MATERIAL AND FINISH		QA APPD					
SEE NOTE 1		EA APPD			SIZE	DWG. NO	REV.
REF		DWG APPD	A.GREEN	DEC 04/06	A3	P-U90-A1X1-1X0X	J
CODE IDENT. NO.	03554	SCALE	5:2	PROJECT	SHEET 2 OF 4		

REVISIONS				
REV.	ECN	DESCRIPTION	DATE	APPROVED
F		NOTE ADDED FOR PIN STYLE REFER TO U90-H1X1-1XXX	JAN 12/09	ZLJ
G		REAR SIOP MODIFIED	SEP 18/09	ZLJ
H		ADD PIN LENGTH DIMENSION 2.50	APR 10/13	ZLJ
J		NEW PART NUMBER U90-A101-1001 ADDED	OCT06/13	ZLJ



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

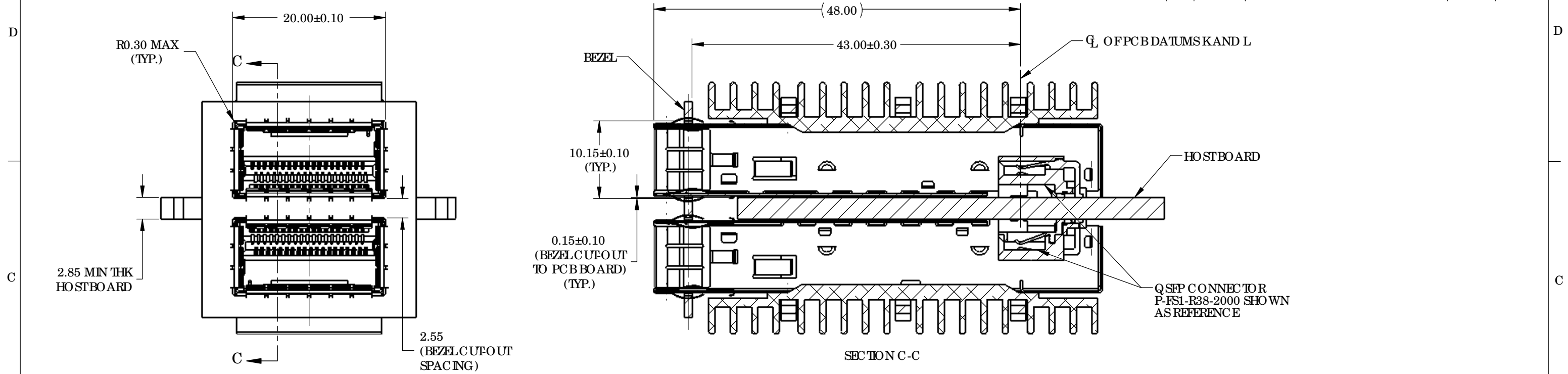
- NOTES:
- DATUMS X AND Y ESTABLISHED BY CUSTOMER'S FUDUCIAL
 - LOCATION OF EDGE OF PCB IS APPLICATION SPECIFIC.
 - FINISHED HOLE SIZE

DO NOT SCALE DRAWING

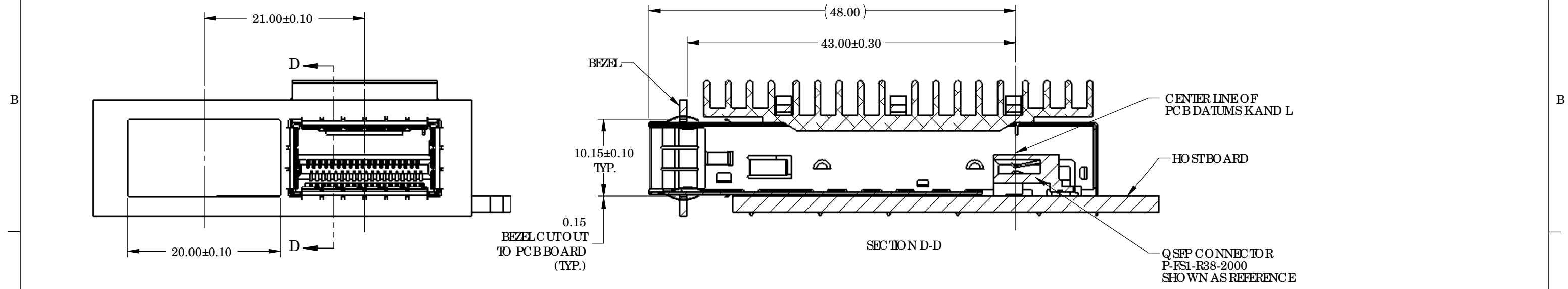
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DECIMALS	ANGLES	DRAWN	M.LONG	DEC 04/06	QSFPC ASSEMBLY <small>TIME</small>		
XX ± 0.15	± 0.5°	DESIGNED	M.LONG	DEC 04/06			
XXX ± 0.10		CHECKED	J.SI	DEC 04/06			
MATERIAL AND FINISH		QA APPD					
SEE NOTE 1		EA APPD			SIZE	DWG. NO.	P-U90-A1X1-1X0X
REF.		DWG APPD	A.GREEN	DEC 04/06	SCALE	5:2	PROJECT
CODE IDENT. NO.	03554						SHEET 3 OF 4

REVISIONS				
REV.	ECN	DESCRIPTION	DATE	APPROVED
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J		NEW PART NUMBER U90-A101-1001 ADDED	OCT06/13	ZLJ



RECOMMENDED BELLY-TO-BELLY MOUNTING DESIGN



RECOMMENDED SINGLE SIDED MOUNTING DESIGN

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DECIMALS	ANGLES	DRAWN	M.LONG	DEC 04/06	DATE		
XX ± 0.15	± 0.5°	DESIGNED	M.LONG	DEC 04/06	QSP CAGE ASSEMBLY		
XXX ± 0.10		CHECKED	J.SI	DEC 04/06			
MATERIAL AND FINISH		QA APPD					
SEE NOTE 1		EAPPD				SIZE	DWG. NO.
REF.		DWG APPD		A.GREEN	DEC 04/06	A3	P-U90-A1X1-1X0X
CODE IDENT. NO.	03554	SCALE		2:1	PROJECT	REV.	J
						SHEET	4 OF 4

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