

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

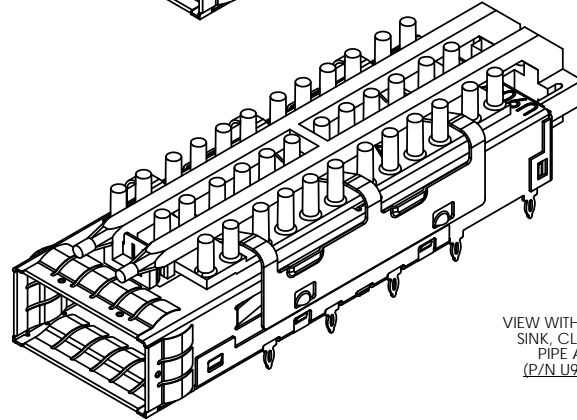
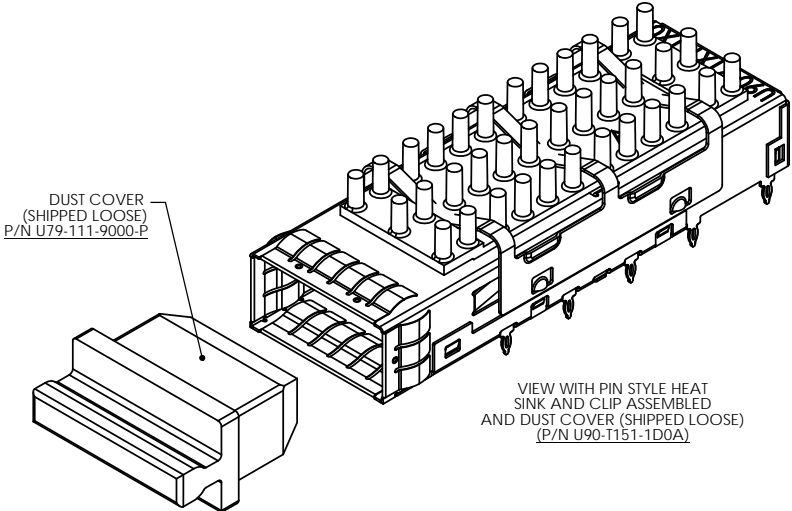
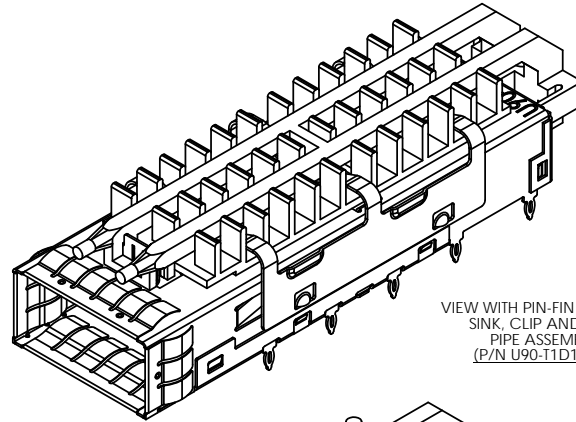
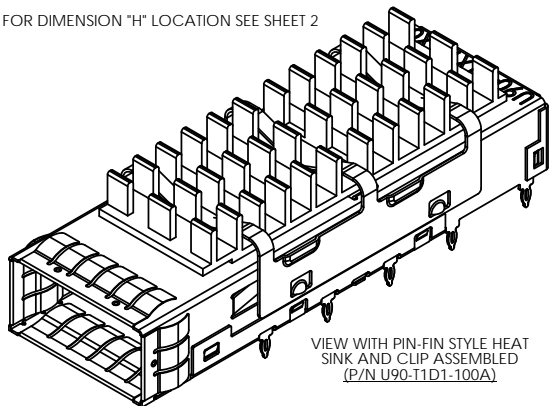
LIGHT PIPE OPTION

- 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

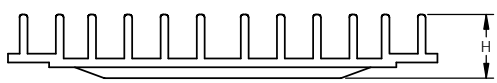
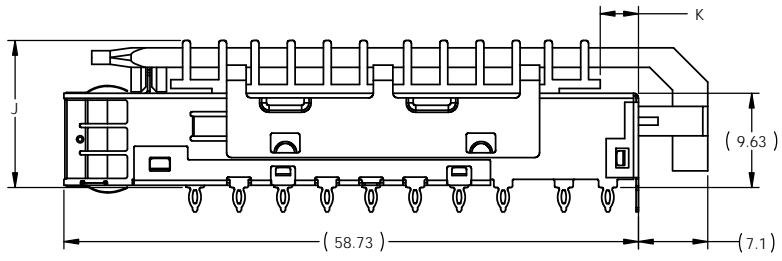
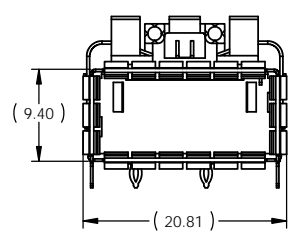
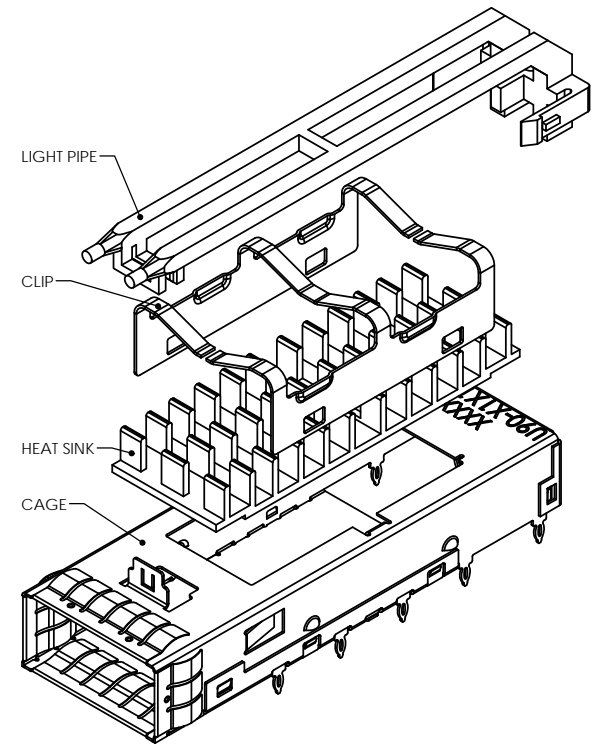
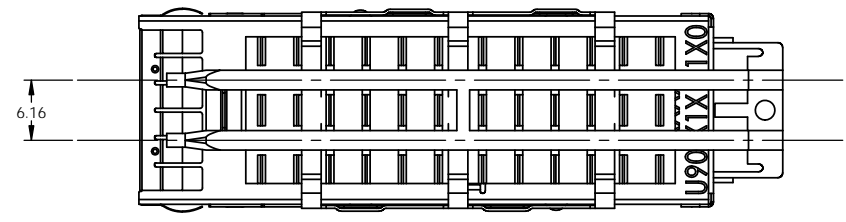


DO NOT SCALE DRAWING

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.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE		Amphenol Canada Corp.	
DECIMALS: X.X ± 0.15 ANGLES: X.XX ± 0.10		DRAWN: J.HU		FEB 22/12			
MATERIAL AND FINISH		DESIGNED: ZLJ		MAR 17/09		OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE WITH LOW PROFILE HEAT SINK CLIP	
SEE NOTE 1		CHECKED: J.SI		MAR 17/09			
REF:		C/A APPD:		E/APPD:		SIZE: A3	
CODE IDENT NO: 03554		DWG APPD: A.GREEN		MAR 17/09		DWG. NO: P-U90-T1X1-1XXX	
		SCALE: 2:1		PROJECT:		REV: B	
						SHEET 1 OF 5	

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



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.

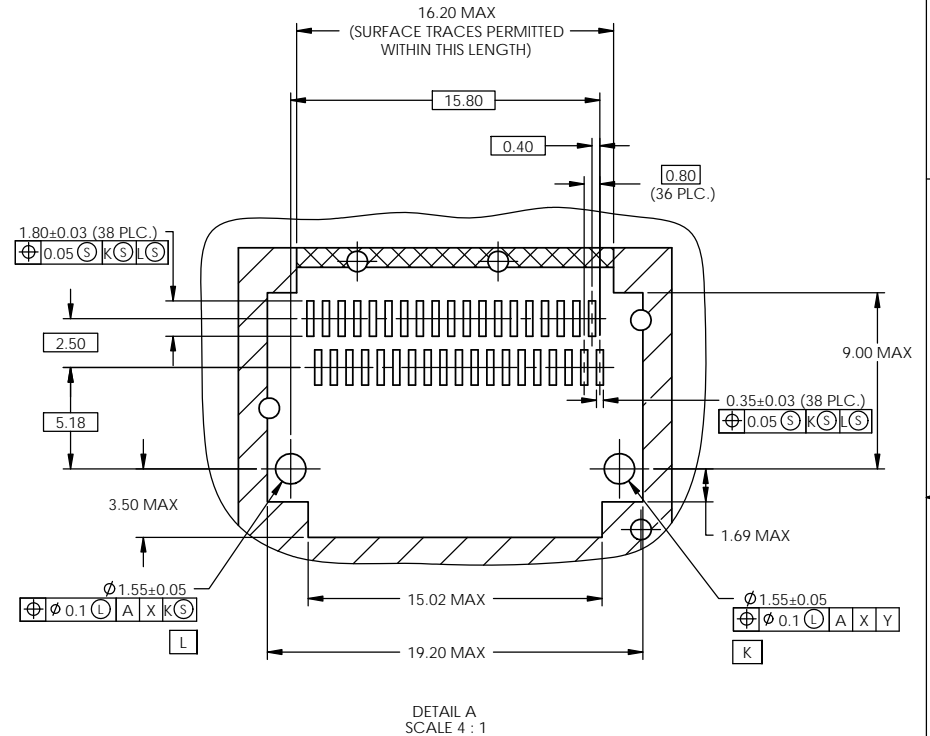
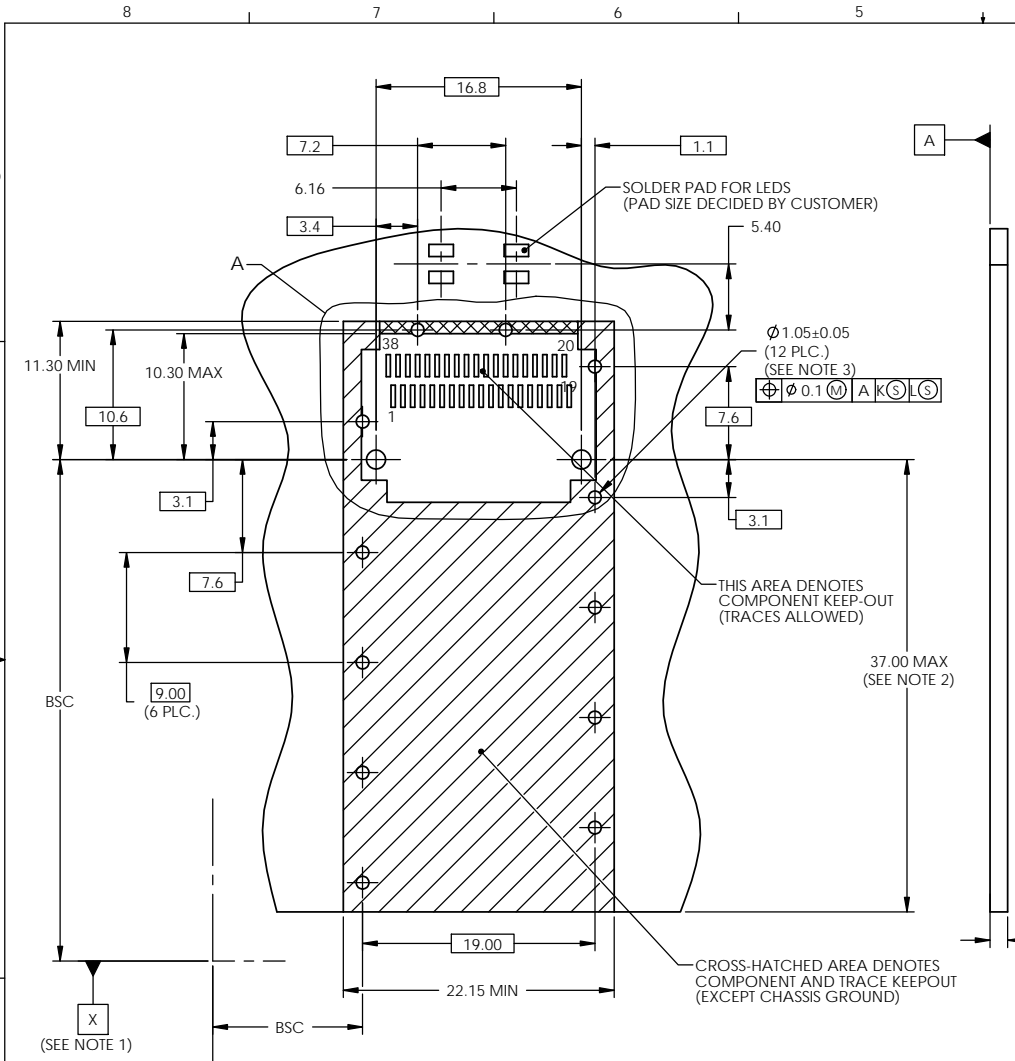


DO NOT SCALE DRAWING

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.

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

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.

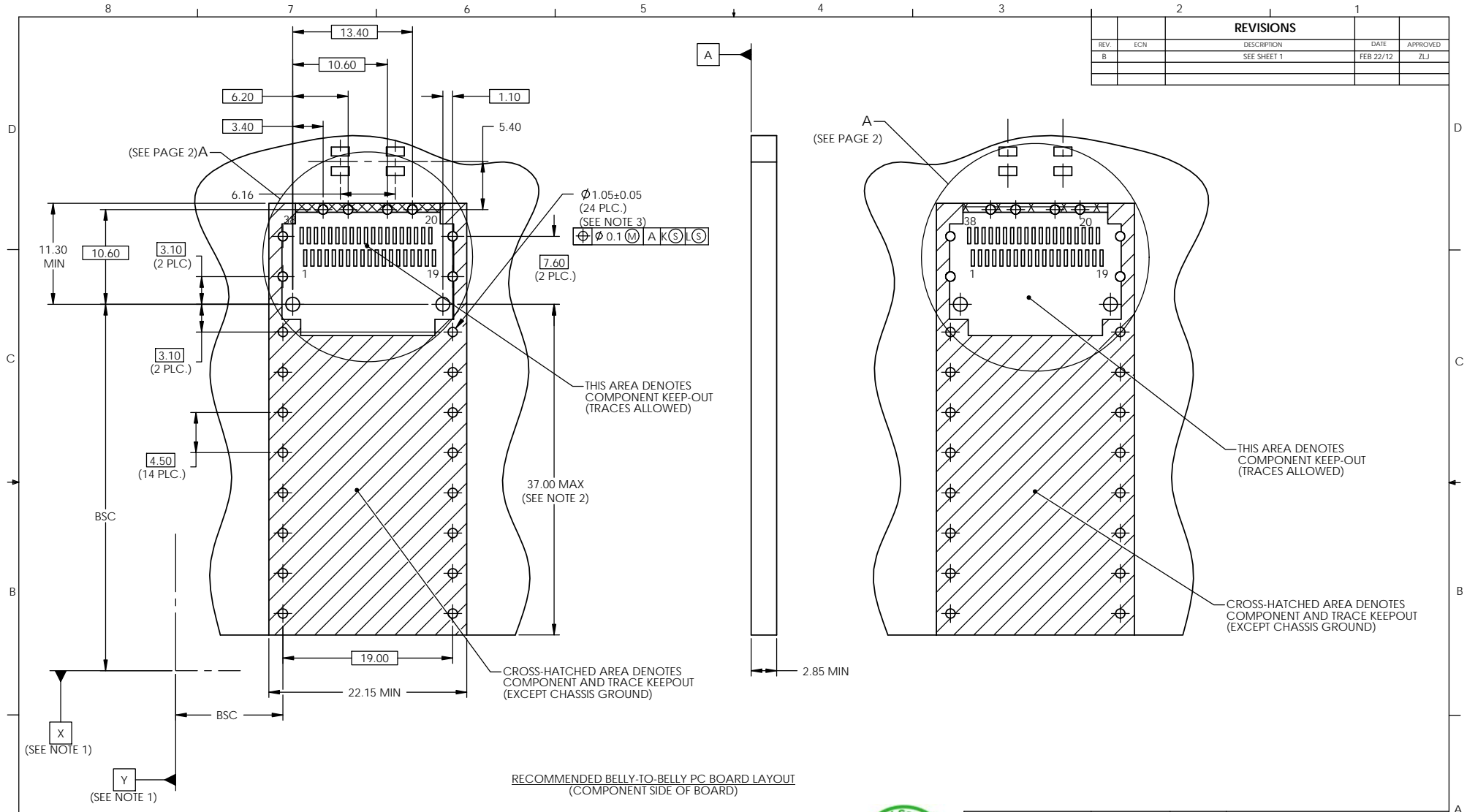
DO NOT SCALE DRAWING

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE		Amphenol Canada Corp.	
DECIMALS X.X ± 0.15 X.XX ± 0.10		DRAWN J.HU		FEB 22/12		TITLE	
ANGLES ± 0.5°		DESIGNED ZLJ		MAR 17/09		OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE (WITH LOW PROFILE HEAT SINK CLIP)	
MATERIAL AND FINISH		CHECKED J.SI		MAR 17/09		SIZE A3	
SEE NOTE 1		E.A.P.P.D.				DWG. NO. P-U90-T1X1-1XXX	
REF.		E.A.P.P.D.				SCALE 5:2	
CODE IDENT NO. 03554		DWG APP'D A.GREEN		MAR 17/09		PROJECT	
						REV. B	
						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.

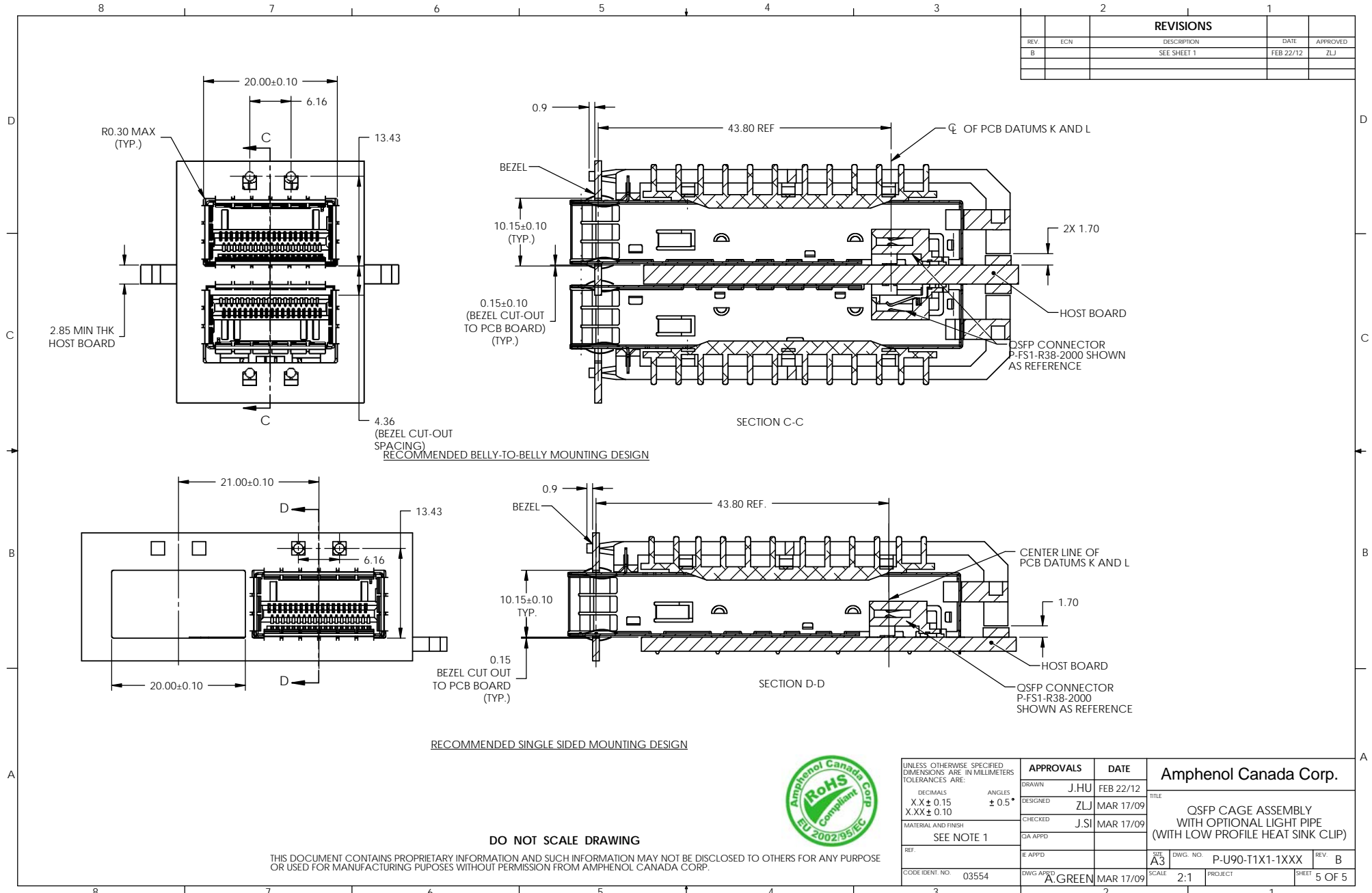
DO NOT SCALE DRAWING

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE	Amphenol Canada Corp.	
DRAWN	J.HU	DESIGNED		J.HU	TITLE	
DESIGNED	ZLJ	CHECKED		MAR 17/09	OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE (WITH LOW PROFILE HEAT SINK CLIP)	
CHECKED	J.SI	QA APPD		MAR 17/09	SIZE DWG. NO. REV.	
MATERIAL AND FINISH	SEE NOTE 1	E APPD			A3	P-U90-T1X1-1XXX B
REF.		DWG APPD		A.GREEN	SCALE	PROJECT SHEET
CODE IDENT NO.	03554	MAR 17/09			5:2	4 OF 5

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



RECOMMENDED BELLY-TO-BELLY MOUNTING DESIGN

RECOMMENDED SINGLE SIDED MOUNTING DESIGN

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.



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