

AMPHENOL PART NUMBER CONFIGURATION

U90 - H 1 X 1 - 1 X X X

HEAT SINK OPTION

- S = 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)
- 6 = PIN STYLE HEAT SINK (NICKEL PLATED) AND CLIP (H=13.5mm: TALL)
- 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" 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

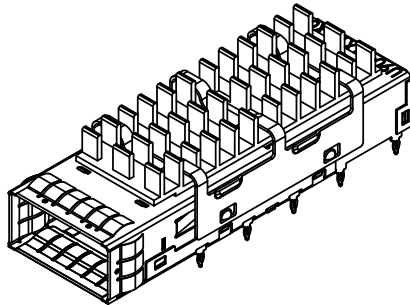
LIGHT PIPE OPTION

- 0 = WITHOUT LIGHT PIPE
- 1 = WITH DUAL ROUND LIGHT PIPE INSTALLED
- 3 = WITH SQUARE LIGHT PIPE INSTALLED (SEE SHEET 3 & 7 FOR DETAILS)
- 7 = WITH SINGLE ROUND LIGHT PIPE INSTALLED

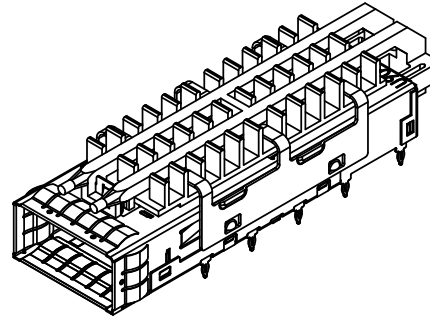
OPTIONAL DUST COVER

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

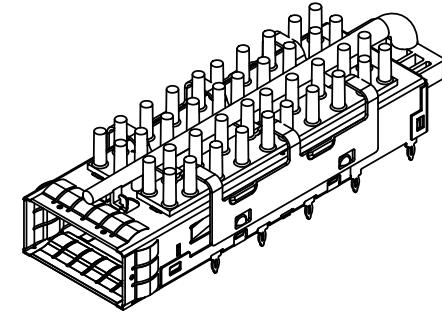
REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ



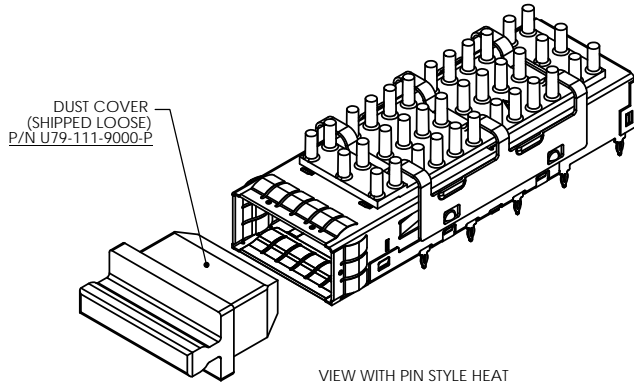
VIEW WITH PIN-FIN STYLE HEAT SINK AND CLIP ASSEMBLED (P/N U90-H1D1-100A)



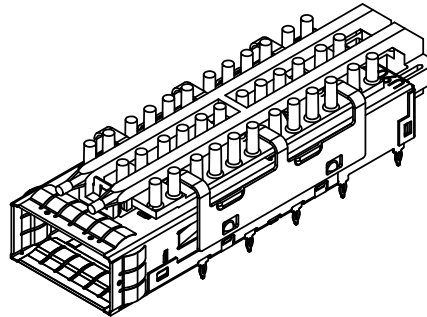
VIEW WITH PIN-FIN STYLE HEAT SINK, CLIP AND LIGHT PIPE ASSEMBLED (P/N U90-H1D1-101A)



VIEW WITH PIN STYLE HEAT SINK, CLIP AND LIGHT PIPE ASSEMBLED (P/N U90-H151-107A)



VIEW WITH PIN STYLE HEAT SINK AND CLIP ASSEMBLED AND DUST COVER (SHIPPED LOOSE) (P/N U90-H151-1D0A)



VIEW WITH PIN STYLE HEAT SINK, CLIP AND LIGHT PIPE ASSEMBLED (P/N U90-H151-101A)

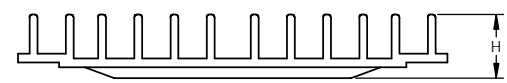
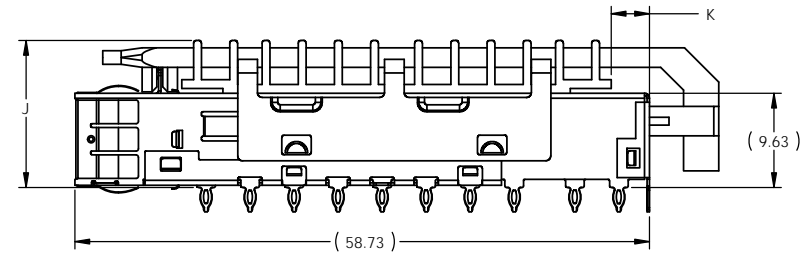
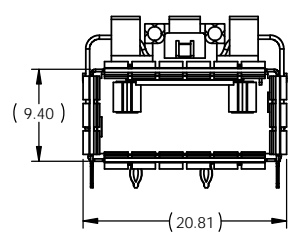
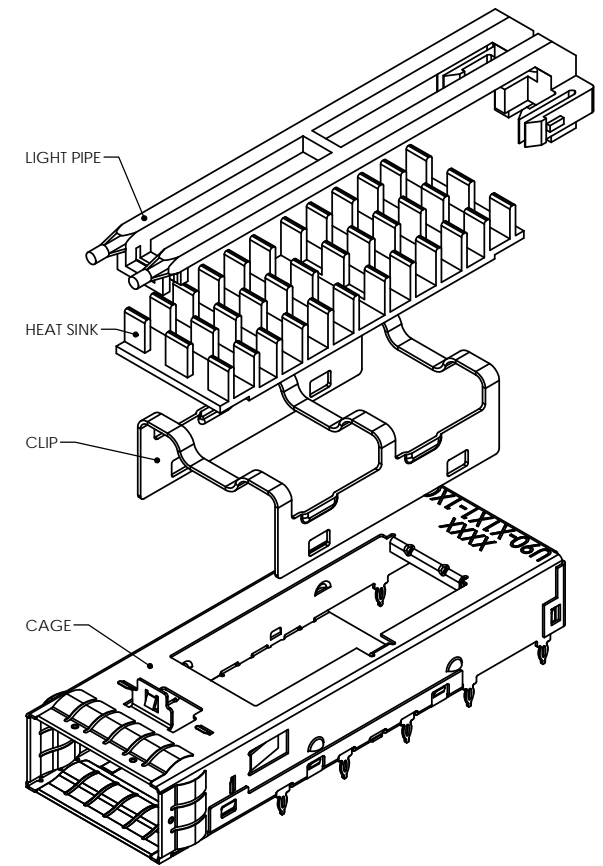
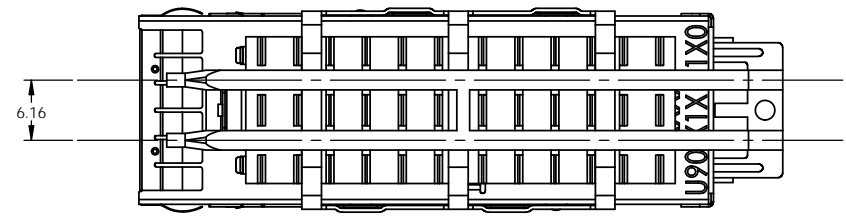


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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE		Amphenol High Speed Interconnects A Division of Amphenol Corp. www.amphenolhighspeed.com			
DECIMALS ± 0.15		DRAWN ZLJ		SEP 24/08		TITLE			
ANGLES ± 0.5°		DESIGNED ZLJ		SEP 24/08		OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE			
MATERIAL AND FINISH		CHECKED J.SI		SEP 24/08		SEE NOTE 1			
REF.		E.A.P.P.D.				SIZE DWG. NO. P-U90-H1X1-1XXX REV. J			
CODE IDENT. NO. 03554		DWG. APP'D A.GREEN		SEP 24/08		SCALE 2:1		PROJECT SHEET 1 OF 8	

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ



PART NUMBER	DIM "J"	DIM "H"	DIM "K"
U90-H151-1XXX	15.03	6.50	3.90
U90-H161-1XXX	12.73	4.20	
U90-H171-1XXX	22.03	13.50	
U90-H1D1-1XXX	15.03	6.50	
U90-H1E1-1XXX	12.73	4.20	
U90-H1F1-1XXX	22.03	13.50	
U90-H1N1-1XXX	15.03	6.50	
U90-H1P1-1XXX	12.73	4.20	
U90-H1R1-1XXX	22.03	13.50	

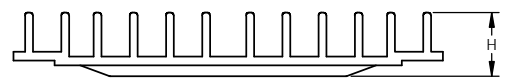
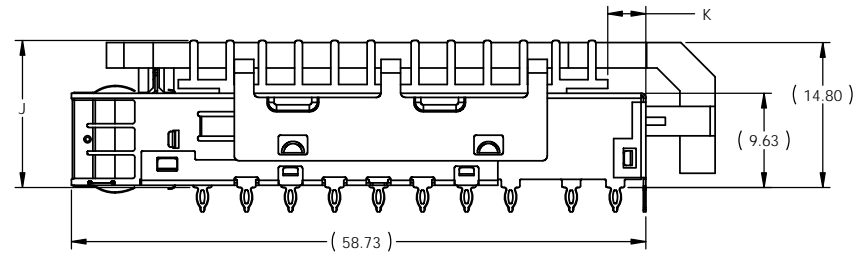
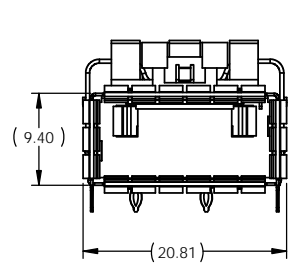
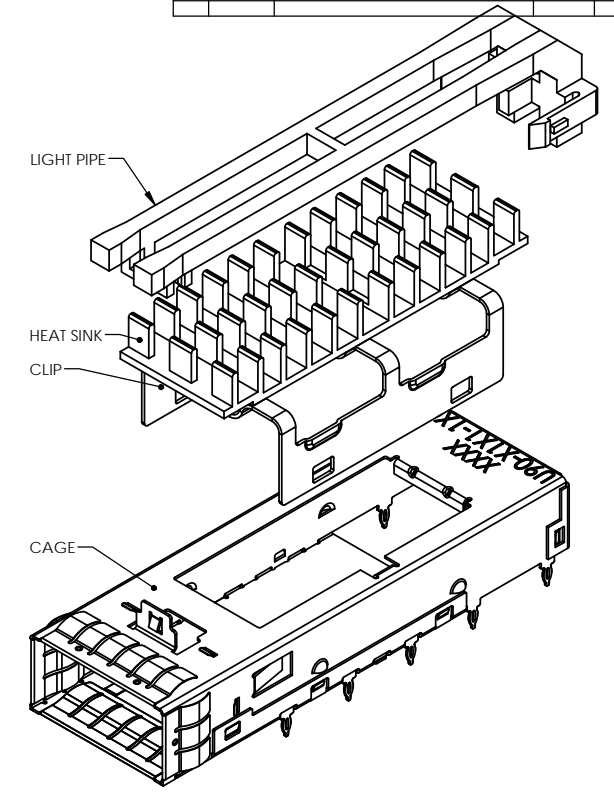
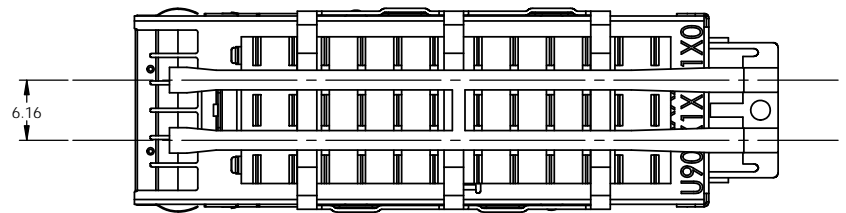
- NOTES:
- CAGE AND EMI SPRINGS MATERIAL: COPPER ALLOY
CAGE PLATING: 2.54µm [100µ"] MIN. NICKEL.
HEAT SINK CLIP MATERIAL: STEEL ALLOY
HEAT SINK MATERIAL: ALUMINUM
LIGHT PIPE MATERIAL: GE LEXAN CLEAR OPTICAL GRADE
 - CAGE IS INTENDED TO BE COMPLIANT WITH THE QUAD SMALL FORM-FACTOR PLUGGABLE (QSFP) TRANSCEIVER SPECIFICATION REVISION 1.0.

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	DRAWN	ZLJ	SEP 24/08	TITLE	
	DESIGNED	ZLJ	SEP 24/08	OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE	
	CHECKED	J.SI	SEP 24/08	MATERIAL AND FINISH	
SEE NOTE 1			CA APPD		
REF.	E APPD		SIZE	DWG. NO.	REV.
CODE IDENT. NO.	DWG APPD	SEP 24/08	A3	P-U90-H1X1-1XXX	J
03554	A.GREEN	SEP 24/08	SCALE	PROJECT	SHEET
			2:1		2 OF 8

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ



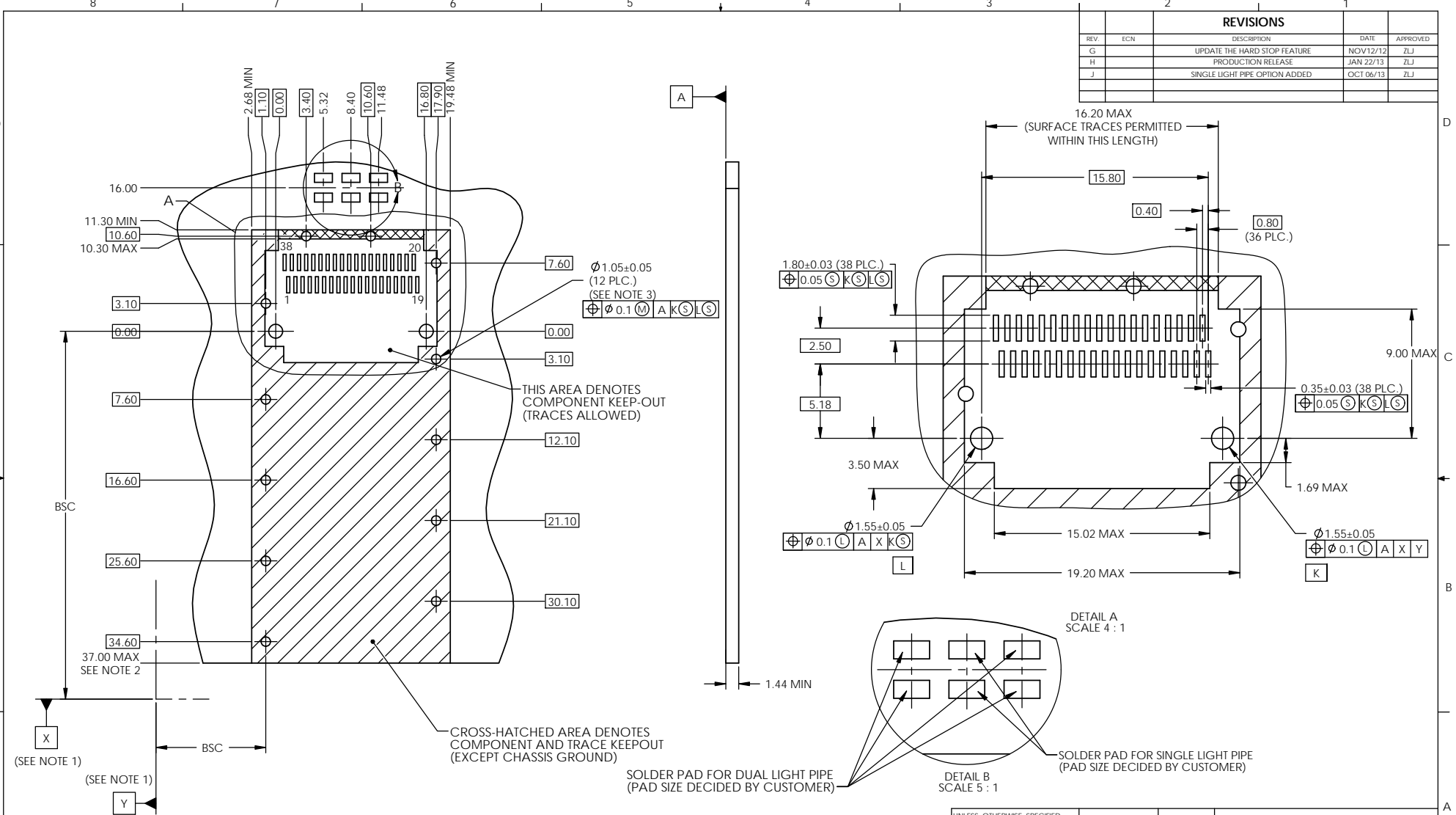
NOTE:
1. FOR DIMENSION "H", "J" AND "K" SEE SHEET 2.

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	DRAWN: ZLJ	SEP 24/08			
	DESIGNED: ZLJ	SEP 24/08	SIZE: A3	DWG. NO: P-U90-H1X1-1XXX	REV: J
	CHECKED: J.SI	SEP 24/08	SCALE: 2:1	PROJECT:	SHEET: 3 OF 8
CODE IDENT NO: 03554 DWG APPD: A.GREEN	E APPD: SEP 24/08	PROJECT:	SHEET:	3 OF 8	

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ

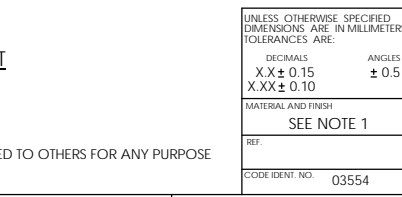
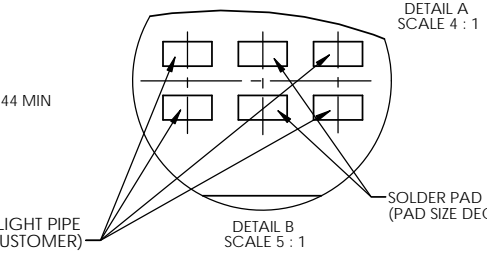


- NOTES:
- DATUMS X AND Y ESTABLISHED BY CUSTOMER'S FUDICIAL.
 - LOCATION OF EDGE OF PCB IS APPLICATION SPECIFIC.
 - FINISHED HOLE SIZE.

**RECOMMENDED PC BOARD LAYOUT
(COMPONENT SIDE OF BOARD)**

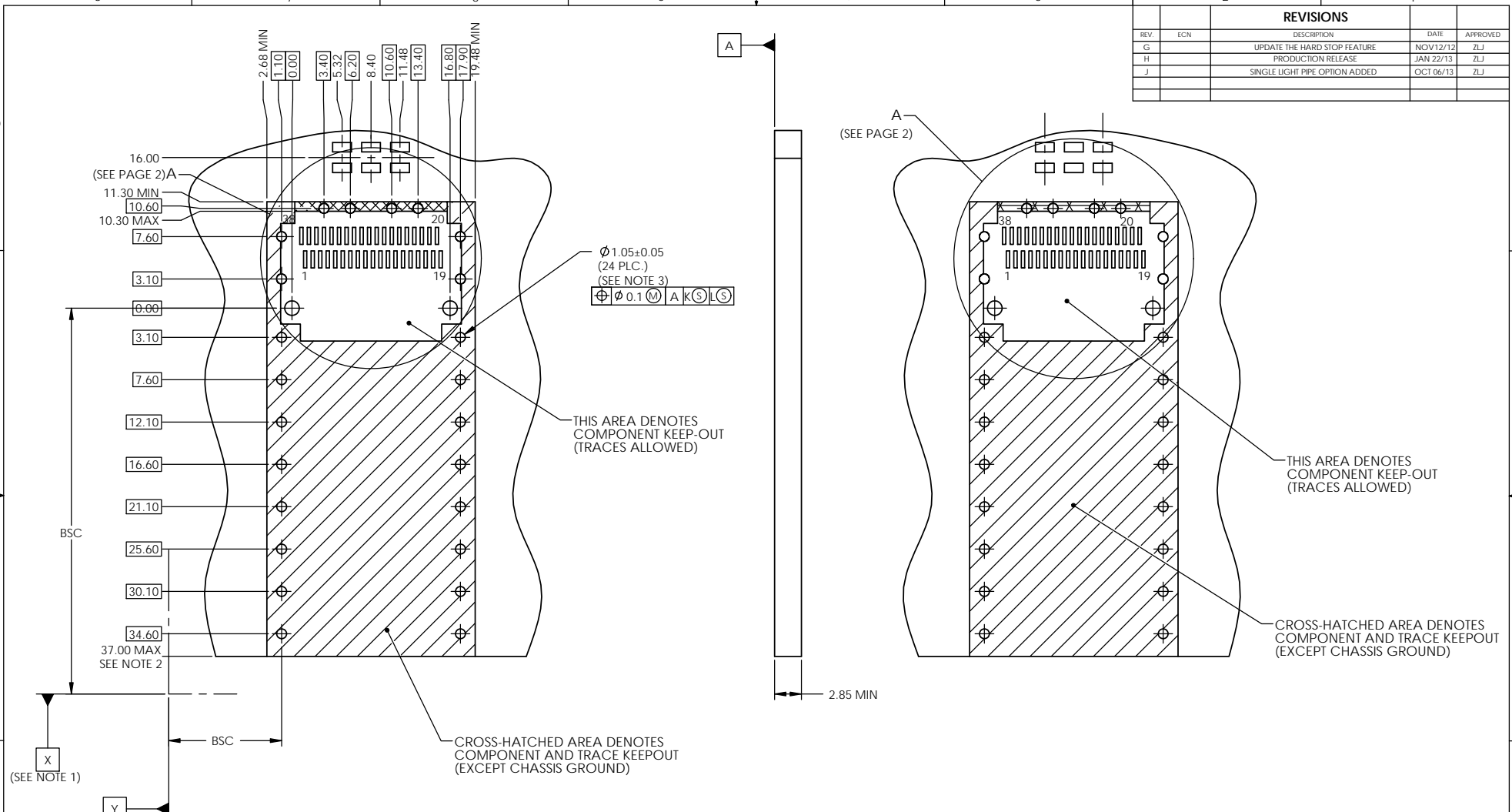
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	DRAWN ZLJ	SEP 24/08	TITLE	
	DESIGNED ZLJ	SEP 24/08	QSPF CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE	
	CHECKED J.SI	SEP 24/08	PROJECT	
	CA APPD		SIZE A3	DWG. NO. P-U90-H1X1-1XXX
	E APPD		SCALE 5:2	REV J
	DWG APPD A.GREEN	SEP 24/08		SHEET 4 OF 8

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ



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

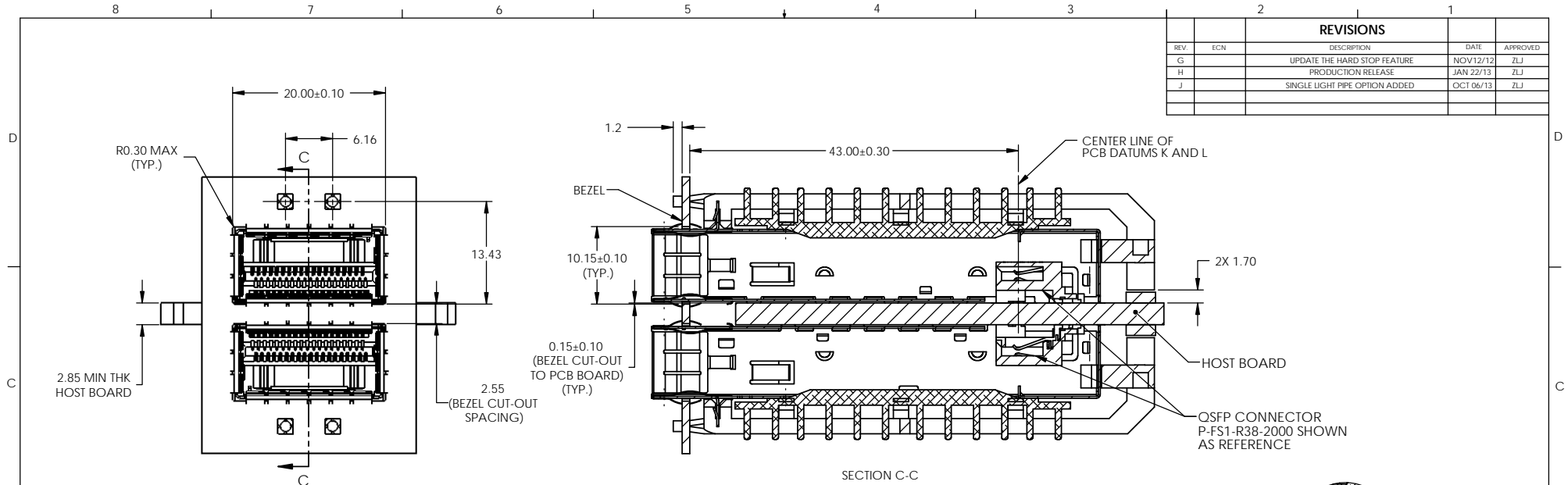
- NOTES:
- DATUMS X AND Y ESTABLISHED BY CUSTOMER'S FUDICIAL.
 - LOCATION OF EDGE OF PCB IS APPLICATION SPECIFIC.
 - FINISHED HOLE SIZE.

DO NOT SCALE DRAWING

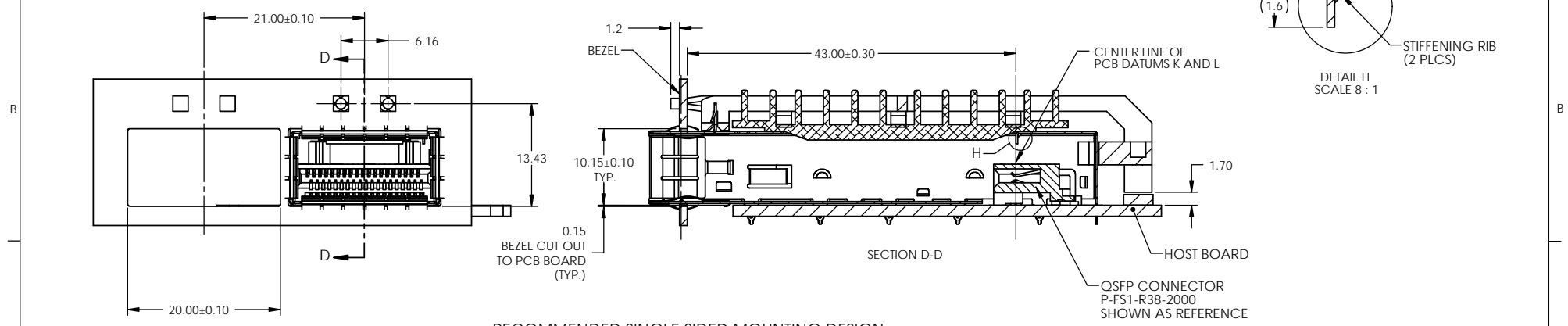
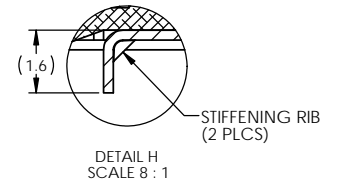
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	DRAWN ZLJ	SEP 24/08	TITLE	
	DESIGNED ZLJ	SEP 24/08	OSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE	
	CHECKED J.SI	SEP 24/08	REV J	
	EA APPD		SIZE A3	DWG. NO. P-U90-H1X1-1XXX
	EA APPD		SCALE 5:2	PROJECT
	DWG APPD A.GREEN	SEP 24/08	SHEET 5 OF 8	

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ



RECOMMENDED BELLY-TO-BELLY MOUNTING DESIGN



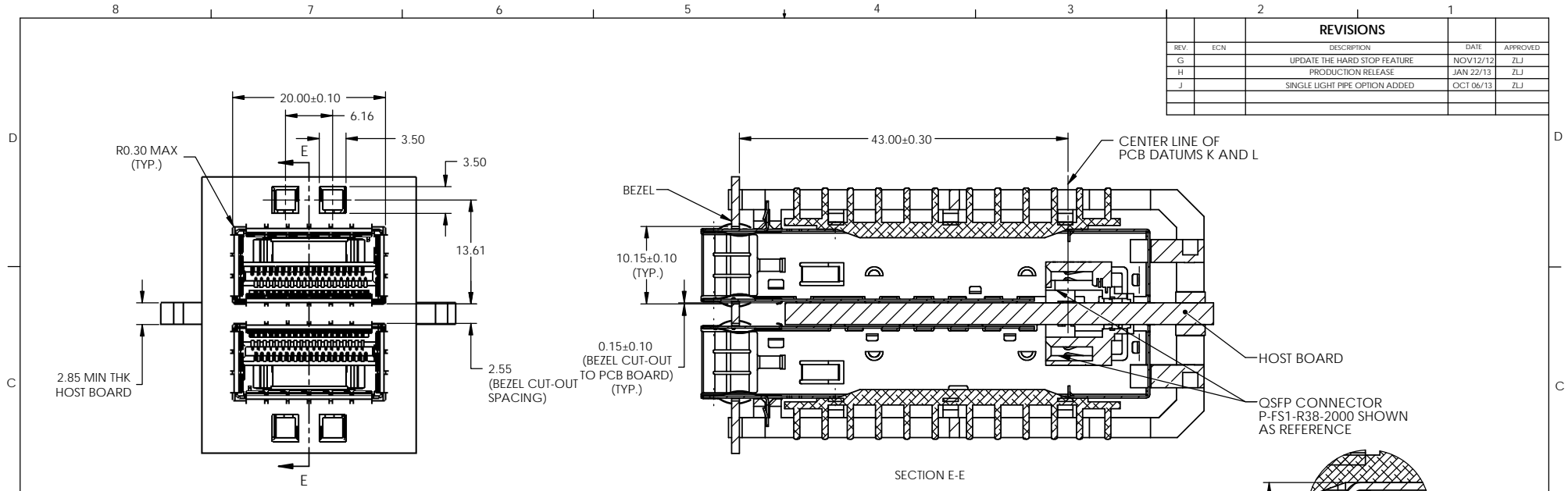
RECOMMENDED SINGLE SIDED MOUNTING DESIGN

DO NOT SCALE DRAWING

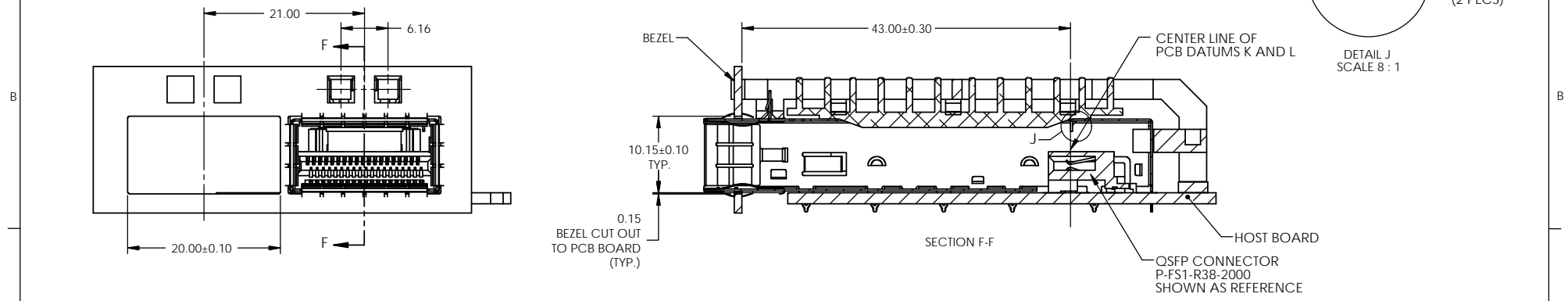
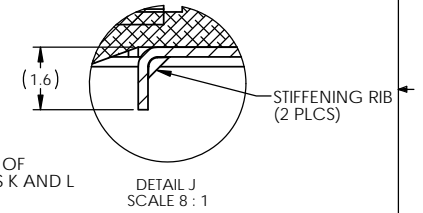
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	DRAWN ZLJ	SEP 24/08			
	DESIGNED ZLJ	SEP 24/08	SIZE A3	DWG. NO. P-U90-H1X1-1XXX	REV. J
	CHECKED J.SI	SEP 24/08	SCALE 2:1	PROJECT	SHEET 6 OF 8
	<small>E. APPD.</small> A.GREEN	SEP 24/08			

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ



RECOMMENDED BELLY-TO-BELLY MOUNTING DESIGN



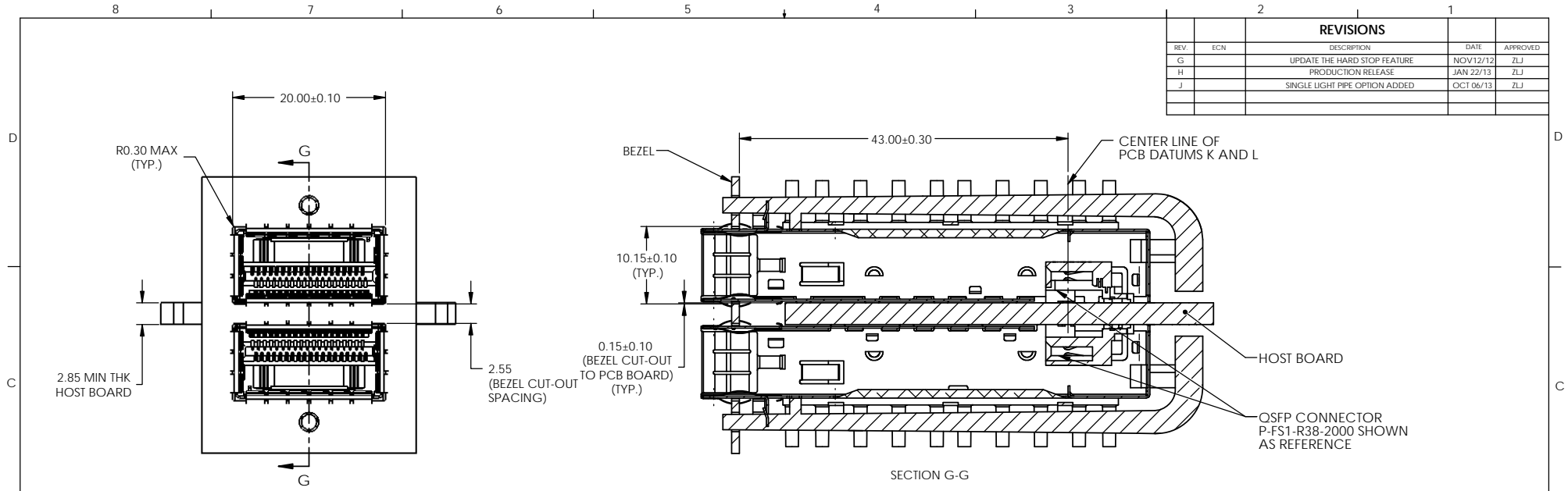
RECOMMENDED SINGLE SIDED MOUNTING DESIGN

DO NOT SCALE DRAWING

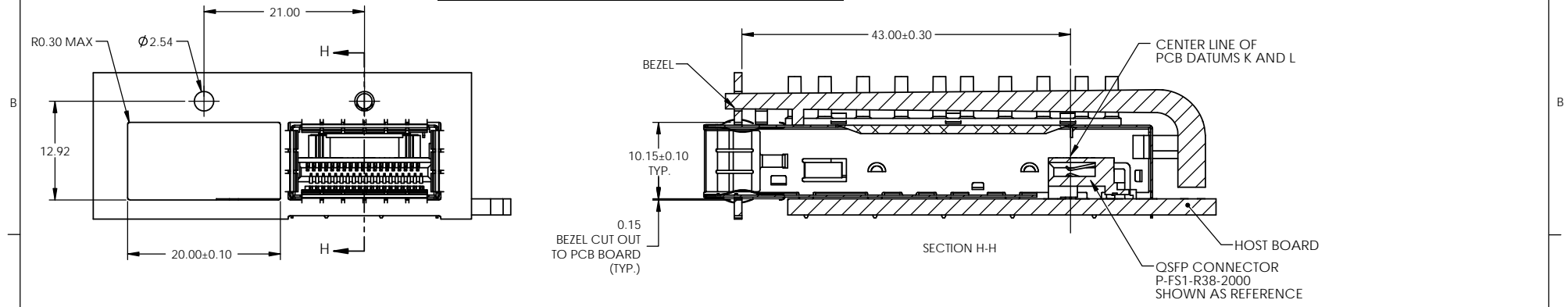
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	DRAWN ZLJ		SEP 24/08		
	DESIGNED ZLJ		SEP 24/08		
	CHECKED J.SI		SEP 24/08		
MATERIAL AND FINISH		QA APPD			
SEE NOTE 1					
REF.	E APPD			SIZE A3	DWG. NO. P-U90-H1X1-1XXX
CODE IDENT. NO. 03554	DWG APPD A.GREEN	SEP 24/08	SCALE 2:1	PROJECT	REV J SHEET 7 OF 8

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APPROVED
G		UPDATE THE HARD STOP FEATURE	NOV12/12	ZLJ
H		PRODUCTION RELEASE	JAN 22/13	ZLJ
J		SINGLE LIGHT PIPE OPTION ADDED	OCT 06/13	ZLJ



RECOMMENDED BELLY-TO-BELLY MOUNTING DESIGN



RECOMMENDED SINGLE SIDED MOUNTING DESIGN

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	DRAWN ZLJ	SEP 24/08			TITLE	
	DESIGNED ZLJ	SEP 24/08	QSFP CAGE ASSEMBLY WITH OPTIONAL LIGHT PIPE			
	CHECKED J.SJ	SEP 24/08				
MATERIAL AND FINISH	SEE NOTE 1	SCALE	SIZE	DWG. NO.	REV.	
REF.		SCALE	A3	P-U90-H1X1-1XXX	J	
CODE IDENT. NO.	03554	DWG. APP'D	A.GREEN	SEP 24/08	PROJECT	SHEET
						8 OF 8

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А