REV. ECN/ER DATE DESCRIPTION APPROVED NEW FRONTFLANGE ADDED JAN 14/11 ZLI Τ. NEW SINGLE IP OPTION ADDED M ZLI NOV 22/11 AMPHENOLPARTNUMBER CONFIGURATION U90 - G 4X1 - 1XXX N BEZELCUIOUTPO SIIIO N REVISED JAN 03/12 Р NO LPW/ GASKETOPTION ADDED APR 05/12 ZLJ $\begin{array}{l} \textbf{HEATSINKOPIION} \\ \textbf{1} = \text{NO} \ \textbf{HEATSINKOR} \ \textbf{CLIP} \ \textbf{SHIPPED} \\ \textbf{5} = \text{PN} \ \textbf{SIYIE} \ \textbf{HEATSINKAND} \ \textbf{CLIP} \ (\textbf{HI}=15.1; \ \textbf{H2}=6.5; \ \textbf{SAN} \ \textbf{HEIG} \ \textbf{HI}) \\ \textbf{6} = \text{PN} \ \textbf{SIYIE} \ \textbf{HEATSINKAND} \ \textbf{CLIP} \ (\textbf{HI}=12.8; \ \textbf{H2}=4.2; \ \textbf{PC1} \ \textbf{HEIG} \ \textbf{HI}) \\ \textbf{7} = \text{PN} \ \textbf{SIYIE} \ \textbf{HEATSINKAND} \ \textbf{CLIP} \ (\textbf{HI}=22.1; \ \textbf{H2}=13.5; \ \textbf{TALI}) \\ \textbf{E} = \text{PN} \cdot \textbf{FIN} \ \textbf{SIYIE} \ \textbf{HEATSINKAND} \ \textbf{CLIP} \ (\textbf{HI}=12.8; \ \textbf{H2}=4.2; \ \textbf{PC1} \ \textbf{HEIG} \ \textbf{HI}) \\ \textbf{F} = \text{PN} \cdot \textbf{FN} \ \textbf{SIYIE} \ \textbf{HEATSINKAND} \ \textbf{CLIP} \ (\textbf{HI}=22.1; \ \textbf{H2}=13.5; \ \textbf{TALI}) \\ \end{array}$ - <u>PACKAGING OPHONS</u>

0 = TRAY PACKAGING, (HEATSINK & CLIP SHIPPED IN SEPARATE TRAY, IF ORDERED)

\$\frac{1}{2}\$ = TRAY PACKAGING, HEATSINK & CLIP SHIPPED ASSEMBLED Q BEZELCUIOUTPO STIION REVISED JAN 29/13 LIGHTPIPEAND BEHIND BEZELCOVER OPTIONS - IIGHTPHEAND BEHIND BEFLECOVEROFIONS

9 = STANDARD (NO LIGHTPPES)

1 = WITH DUAL BARREL RO UND LIGHT PPES INSTALLED

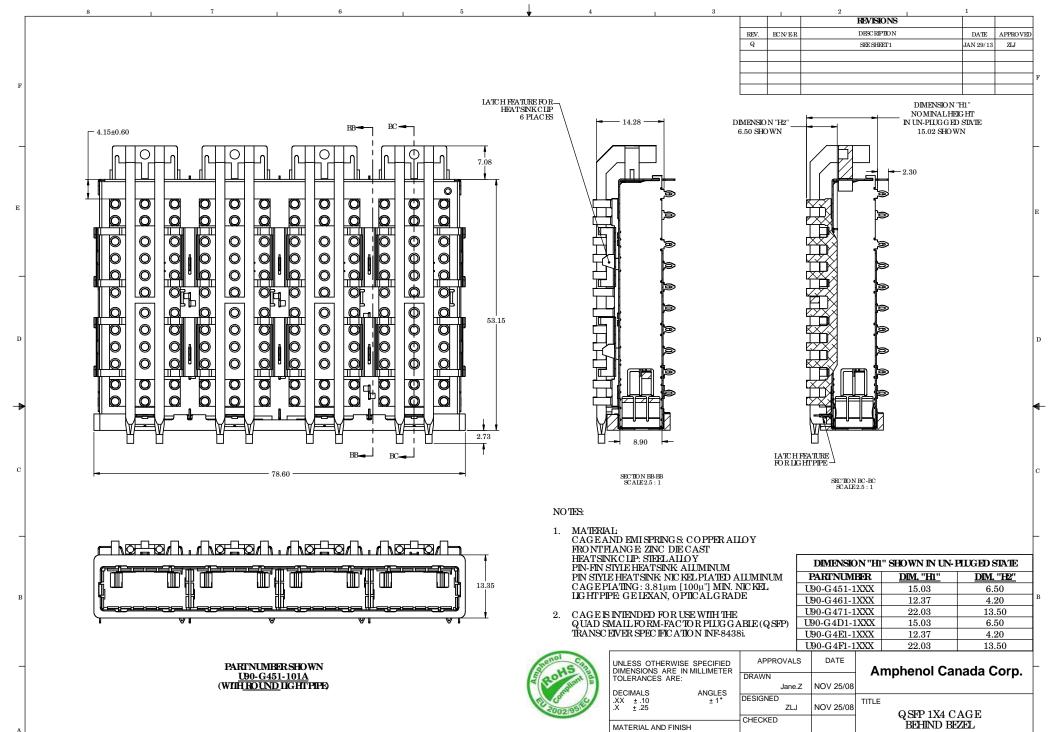
2 = WITH DUAL BARREL RO UND LIGHT PPES AND WITH BEHIND BEZELEMI

GASKETSHEPPED LO OSE CASSECTSHIPPED LOUSE

3 = WITH DULL BARRELS QUARE LIGHTPIPES INSTALLED. FOR DEPAILS ON THIS OPTION SECSHEETS AND 9

7 = WITH SNOTE BARREL ROUND LIGHTPIPE

2 = NO LIGHTPIPES AND WITH BEHIND BEZELEMI GASKETSHIPPED LOOSE FOR LOCATION OF "H1" AND "H2" DIMENSIONS SEE SHEET 2 AND 3 LIGHTPIPE- $\begin{array}{l} \textbf{OPIIONALDUSTCOVER} \\ \textbf{0} = \textbf{WITHOUTDUSTCOVER} \\ \textbf{D} = \textbf{WITH DUSTCOVER} (\textbf{SHIPPED AS IOOSE PIECE)} \end{array}$ HEATSINK CLIP HEATSINK-PARTNUMBER SHOWN U90-G451-101A 1X4 QSFP CAGE-BEHIND BEZELEMI GASKET(OPTIONAL) P/N: U90-1420-8010-BF DUSTCOVER (OPTIONAL) P/N U90-1401-8000BP FRONTFIANGE PARTNUMBER SHO WN <u>U90-G451-1D2A</u> (EXPLODED VIEW) PARTNUMBER SHOWN APPROVALS DATE U90-G451-107A UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER TOLERANCES ARE: **Amphenol Canada Corp.** DRAWN NOV 25/08 Jane 7 DECIMALS **ANGLES** DESIGNED .XX ± .10 .X ± .25 ± 1° TITLE ZLJ NOV 25/08 QSFP 1X4 CAGE CHECKED BEHIND BEZEL MATERIAL AND FINISH QA APP'D WITH HEATSINK, CLIP AND LIGHT PIPE DWG. NO. SIZE IE APP'D REF. P-U90-G4X1-1XXX Q DO NOT SCALE DRAWING
THIS DOCUMENT COTAINS 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. DWG APP'D PROJECT SHEET SCALE CODE IDENT. NO. A.GREEN NOV 25/08 1.6:1 1 OF 10



QA APP'D

IE APP'D

DWG APP'D

A.GREEN NOV 25/08

REF.

CODE IDENT. NO.

WITH HEATSINK, CLIP AND LIGHT PIPE

P-U90-G4X1-1XXX

PROJECT

Q

SHEET

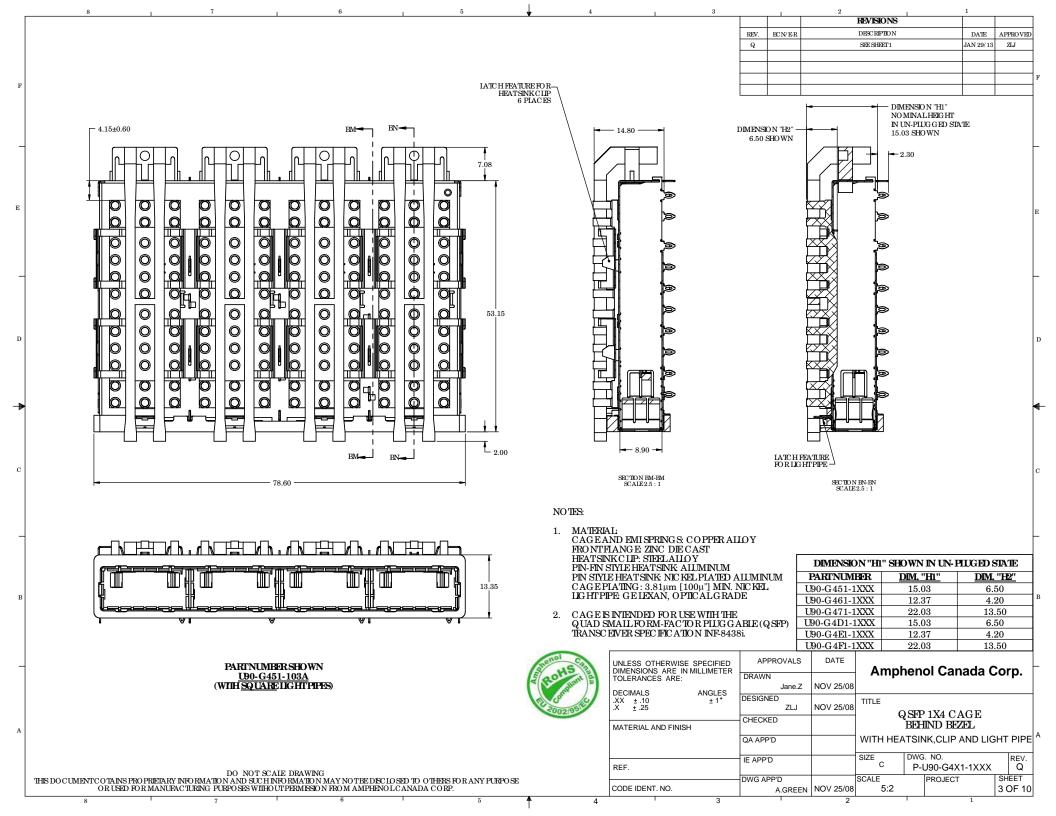
2 OF 10

DWG. NO.

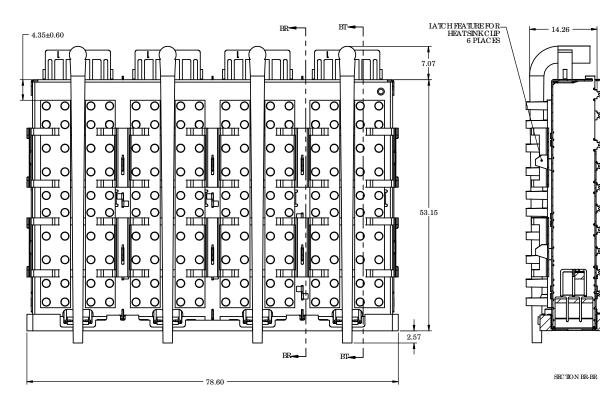
SIZE

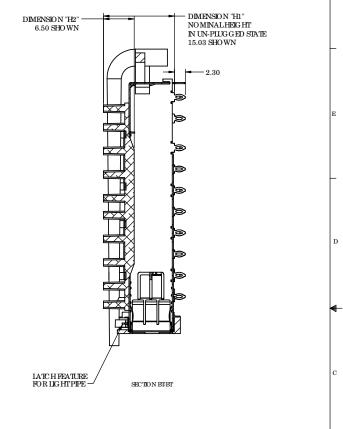
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REVISIONS ECN/ER DESCRIPTION REV. DATE APPROVED SEE SHEET1 JAN 29/13 ZLJ Q







 MATERIAL: CAGE AND EMI SPRINGS: COPPER ALLOY FRONTFLANGE ZINC DIECAST HEATSINKCLIP: STEELALLOY PIN-FIN STYLE HEATSINK: ALUMINUM PIN SIYIE HEATSINK NIC KELPIATED ALLMINUM CAGE PIATING: 3.81µm [100µ"] MIN. NICKEL LIGHTPIPE GE LEXAN, OPTICAL GRADE

CAGE IS INTENDED FOR USE WITH THE QUAD SMAIL FORM-FACTOR PLUGGABLE (QSFP) TRANSCEIVER SPECIFICATION INF-8438i.

DIMENSION "HI" SHOWN IN UN-PLUGED STATE								
PARTNUMBER	<u>DIM. "H1"</u>	<u>DIM. "H2"</u>						
U90-G451-1XXX	15.03	6.50						
U90-G461-1XXX	12.37	4.20						
U90-G471-1XXX	22.03	13.50						
U90-G4D1-1XXX	15.03	6.50						
U90-G4E1-1XXX	12.37	4.20						
U90-G4F1-1XXX	22.03	13.50						



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13.35

		U	<i>J</i> 90-G4F1-1	F1-1XXX		03	13.	.50
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER	APPROVALS		DATE	Amphenol Canada Corp.				
TOLERANCES ARE: DECIMALS ANGLES	DRAWN Jan	e.Z	NOV 25/08	•				,огр.
XX ± .10 ± 1° X ± .25	DESIGNED ZL	J	NOV 25/08	TITLE		0 1 V 4 C	ACE	
MATERIAL AND FINISH	TERIAL AND FINISH CHECKED				QSFP 1X4 CAGE BEHIND BEZEL			
	QA APP'D				HEATSI	,	AND LIG	
REF.	IE APP'D			SIZE	、 I	3. NO. U90-G4X	(1-1XXX	REV. Q
CODE IDENT. NO.	DWG APP'D A.GR	EEN	NOV 25/08	SCALE	5:2	PROJECT		SHEET 4 OF 10

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