REVISIONS REV. ECN/E-R DATE DESCRIPTION APPROVED NEW FRONT FLANGE ADDED IAN 14/11 71.1 NEW SINGLE LP OPTION ADDED M 71 I NOV 22/1 AMPHENOL PART NUMBER CONFIGURATION U90 - G 4X1 - 1XXX Ν BEZEL CUTOUT POSITION REVISED IAN 03/12 ZLJ NO LP W/ GASKET OPTION ADDED APR 05/12 ZLJ HEAT SINK OPTION

1 = NO HEAT SINK OR CLIP SHIPPED

5 = PIN STYLE HEAT SINK AND CLIP (H1=15.1; H2=6.5; SAN HEIGHT) - PACKAGING OPTIONS 0 = TRAY PACKAGING, (HEAT SINK & CLIP SHIPPED IN SEPARATE TRAY, IF ORDERED) Q BEZEL CUTOUT POSITION REVISED JAN 29/13 ZLJ A = TRAY PACKAGING, HEAT SINK & CLIP SHIPPED ASSEMBLED 3 = PIN STYLE HEAT SINK AND CLIP (H1=12.8; H2=4.2; PCI HEIGHI)
7 = PIN STYLE HEAT SINK AND CLIP (H1=12.8; H2=4.2; PCI HEIGHI)
7 = PIN STYLE HEAT SINK AND CLIP (H1=5.1; H2=6.5; SAN HEIGHI)
8 = PIN-FIN STYLE HEAT SINK AND CLIP (H1=15.1; H2=6.5; SAN HEIGHI)
9 = PIN-FIN STYLE HEAT SINK AND CLIP (H1=12.8; H2=4.2; PCI HEIGHI) LIGHT PIPE AND BEHIND BEZEL COVER OPTIONS - LIGHT IPIE AND BEHIND BELEL COVER OPIONS

9 = STANDARD (NO LIGHT PIPES)

1 = WITH DUAL BARREL ROUND LIGHT PIPES INSTALLED

2 = WITH DUAL BARREL ROUND LIGHT PIPES AND WITH BEHIND BEZEL EMI
GASKET SHIPPED LOOSE E = PIN-FIN STYLE HEAT SINK AND CLIP (H1= 22.1; H2=13.5; TALL) GASKEI SHIPPED LOUSE
3 = WITH DUAL BARREL SQUARE LIGHT PIPES INSTALLED. FOR DETAILS ON
THIS OPTION SEE SHEET 3 AND 9
7 = WITH SINGLE BARREL ROUND LIGHT PIPE
2 = NO LIGHT PIPES AND WITH BEHIND BEZEL EMI GASKET SHIPPED LOOSE FOR LOCATION OF "H1" AND "H2" DIMENSIONS SEE SHEET 2 AND 3 LIGHT PIPE WITHOUT DUST COVER  $\underline{\mathbf{0}}$  = WITH DUST COVER (SHIPPED AS LOOSE PIECE) HEAT SINK CLIP-HEAT SINK-PART NUMBER SHOWN U90-G451-101A 1X4 QSFP CAGE-BEHIND BEZEL EMI GASKET (OPTIONAL) P/N: U90-1420-8010-BF DUST COVER (OPTIONAL) P/N U90-1401-8000BP FRONT FLANGE PART NUMBER SHOWN U90-G451-1D2A (EXPLODED VIEW) PART NUMBER SHOWN APPROVALS DATE U90-G451-107A UNLESS OTHERWISE SPECIFIED Amphenol Canada Corp. DIMENSIONS ARE IN MILLIMETER TOLERANCES ARE: DRAWN NOV 25/08 Jane 7 DECIMALS **ANGLES** DESIGNED .XX ± .10 .X ± .25 ± 1° TITLE NOV 25/08 **QSFP 1X4 CAGE** CHECKED **BEHIND BEZEL** MATERIAL AND FINISH WITH HEATSINK, CLIP AND LIGHT PIPE A QA APP'D 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

DESCRIPTION RFV. ECN/E-R DATE APPROVED SEE SHEET 1 Q IAN 29/13 ZLJ LATCH FEATURE FOR-HEAT SINK CLIP DIMENSION "H1" NOMINAL HEIGHT 6 PLACES 14.28 DIMENSION "H2" IN UN-PLUGGED STATE 4.15±0.60 6.50 SHOWN 15.02 SHOWN 0 O 0 Φ 0 0 0 Φ 0 0 0 Φ 0 0 0 Φ 0 Ф 0 0 0 d Φ 0 0 0 Φ 0 0 0 53.15 0 0 0 0 0 0 0 0 0 0 0 0 0 O 0 0 0 0 0 Ó 0 0 0 0 0 2 73 LATCH FEATURE FOR LIGHT PIPE 78.60 SECTION BB-BB SCALE 2.5 : 1 SECTION BC-BC SCALE 2.5 : 1 NOTES: MATERIAL: CAGE AND EMI SPRINGS: COPPER ALLOY FRONT FLANGE: ZINC DIE CAST HEAT SINK CLIP: STEEL ALLOY **DIMENSION "H1" SHOWN IN UN-PLUGED STATE** PIN-FIN STYLE HEAT SINK: ALUMINUM PIN STYLE HEAT SINK: NICKEL PLATED ALUMINUM PART NUMBER DIM. "H1" DIM. "H2" 13.35 CAGE PLATING: 3.81µm [100µ"] MIN. NICKEL. U90-G451-1XXX 15.03 6.50 LIGHT PIPE: GE LEXAN, OPTICAL GRADE U90-G461-1XXX 12.37 4.20 U90-G471-1XXX 22.03 13.50 CAGE IS INTENDED FOR USE WITH THE QUAD SMALL FORM-FACTOR PLUGGABLE (QSFP) U90-G4D1-1XXX 15.03 6.50 TRANSCEIVER SPECIFICATION INF-8438i. U90-G4E1-1XXX 12.37 4.20 U90-G4F1-1XXX 22.03 13.50 APPROVALS DATE UNLESS OTHERWISE SPECIFIED PART NUMBER SHOWN Amphenol Canada Corp. DIMENSIONS ARE IN MILLIMETER TOLERANCES ARE: U90-G451-101A DRAWN (WITH ROUND LIGHT PIPE) NOV 25/08 Jane 7 DECIMALS **ANGLES** DESIGNED .XX ± .10 .X ± .25 ± 1° TITLE NOV 25/08 **QSFP 1X4 CAGE** CHECKED **BEHIND BEZEL** MATERIAL AND FINISH WITH HEATSINK, CLIP AND LIGHT PIPE A QA APP'D DWG. NO. SIZE IE APP'D P-U90-G4X1-1XXX Q

DO NOT SCALE DRAWING

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REF.

CODE IDENT. NO.

DWG APP'D

A.GREEN NOV 25/08

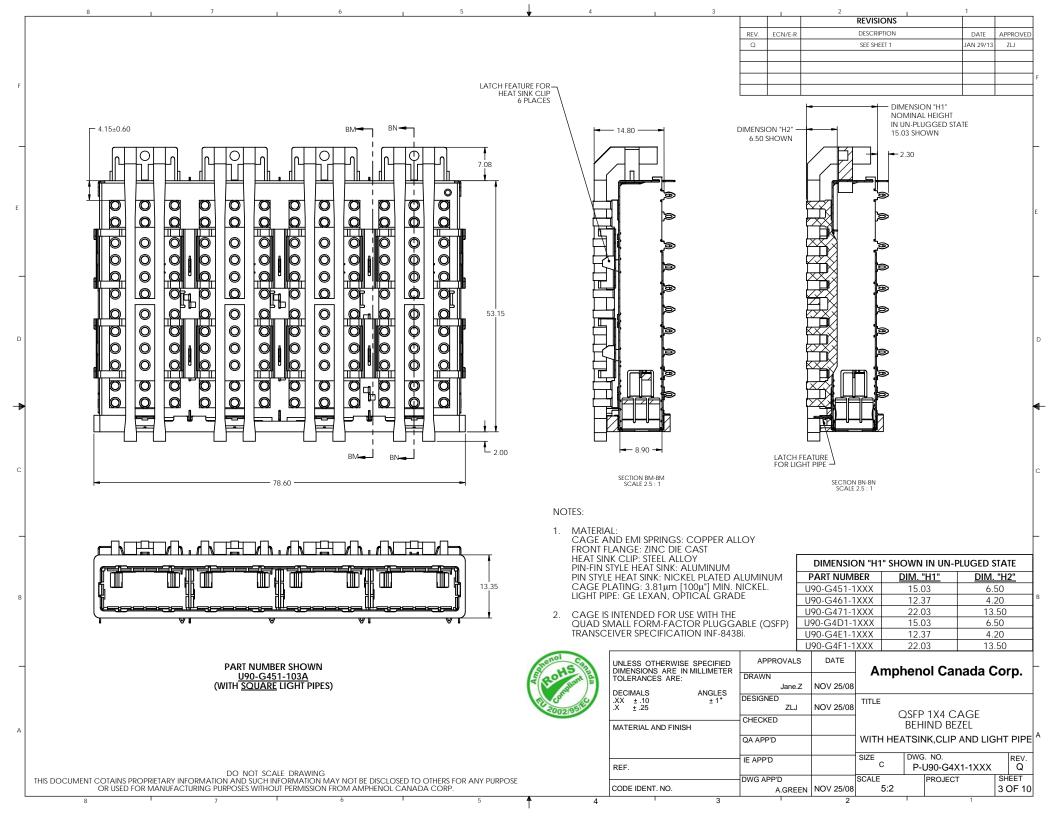
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SCALE

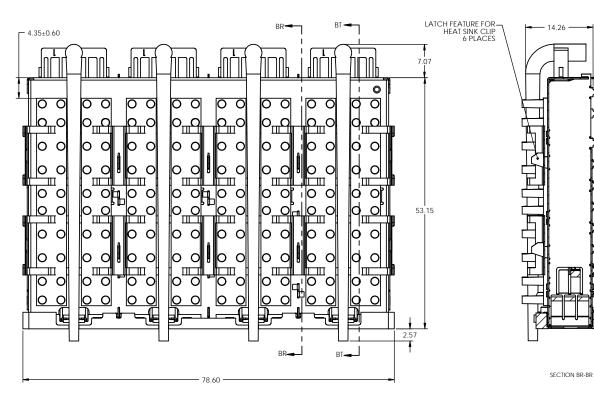
SHEET

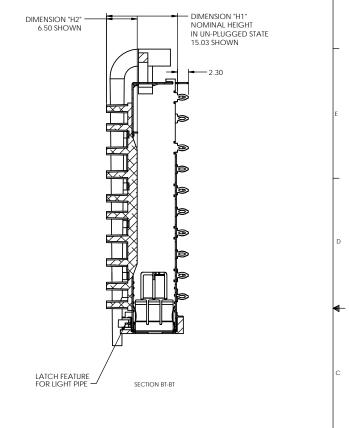
2 OF 10

REVISIONS



REVISIONS DESCRIPTION REV. ECN/E-R DATE APPROVED Q SEE SHEET 1 JAN 29/13 ZLJ



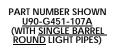


## NOTES:

 MATERIAL: CAGE AND EMI SPRINGS: COPPER ALLOY FRONT FLANGE: ZINC DIE CAST HEAT SINK CLIP: STEEL ALLOY PIN-FIN STYLE HEAT SINK: ALUMINUM PIN STYLE HEAT SINK: NICKEL PLATED ALUMINUM CAGE PLATING: 3.81µm [100µ"] MIN. NICKEL. LIGHT PIPE: GE LEXAN, OPTICAL GRADE

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

DIMENSION "H1" SHOWN IN UN-PLUGED STATE						
PART NUMBER	DIM. "H1"	DIM. "H2"				
U90-G451-1XXX	15.03	6.50				
U90-G461-1XXX	12.37	4.20	В			
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				





			L	J90-G4F1-1	XXX	22.0	)3	13.	50		l
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER		APPROVALS		DATE	Amphenol Canada Corp.						
TOLERANCES ARE:		DRAWN	Jane.Z	NOV 25/08	l	inpiicii	oi Cari	aua C	,01	ρ.	
DECIMALS .XX ± .10 .X ± .25	ANGLES ± 1°	DESIGNED	ZLJ	NOV 25/08	TITLE	OCED	1X4 CA	VCE			
MATERIAL AND FINISH		CHECKED				BEH	EL				
		QA APP'D				HEATSIN		AND LIG	HT	PIPE	
REF.		IE APP'D			SIZE		. no. J90-G4X	1-1XXX		REV. Q	
CODE IDENT. NO.		DWG APP'E A	GREEN	NOV 25/08	SCALE	5:2	PROJECT			EET OF 10	

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13.35

