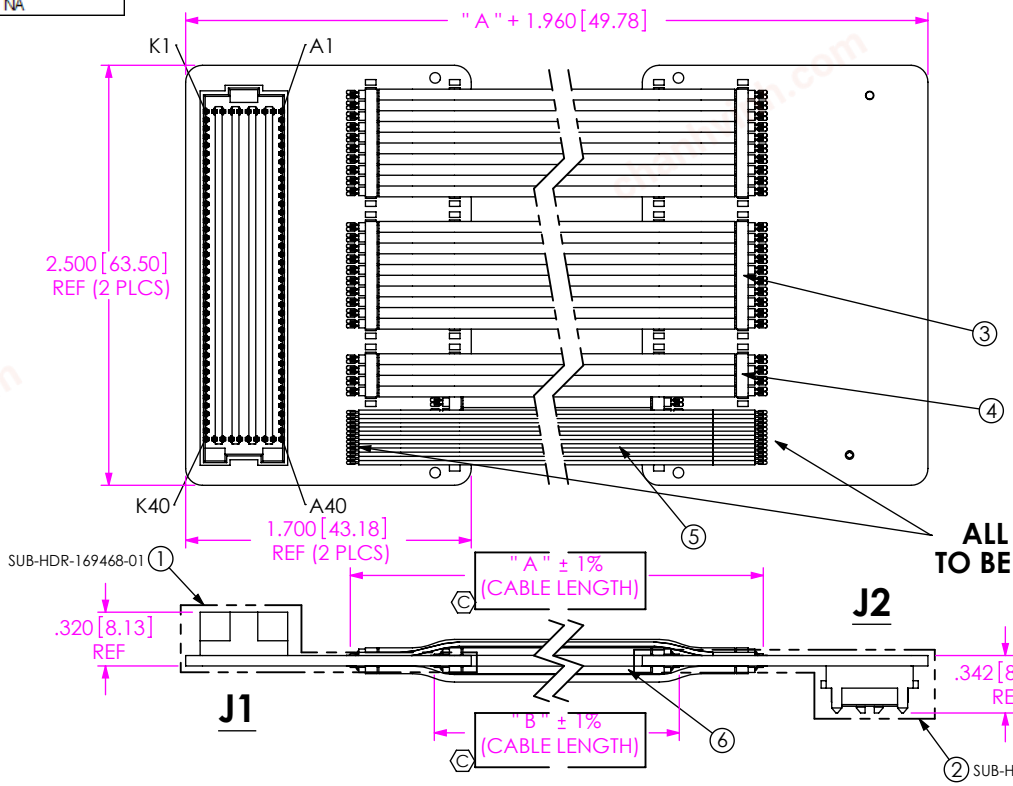
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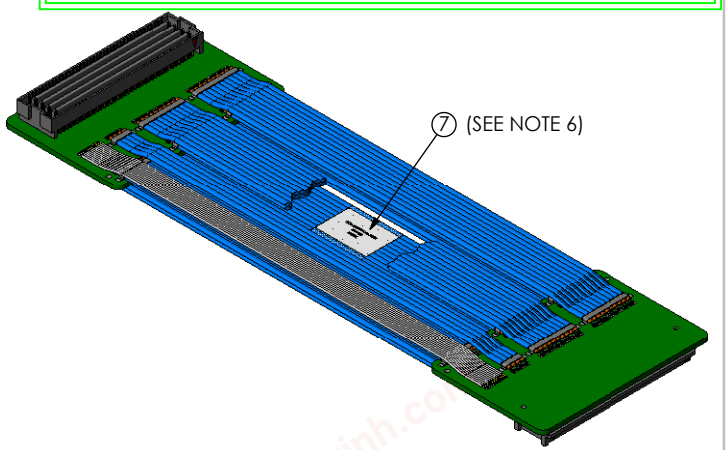
REVISION B

HDR SETUP OPTION:
NA

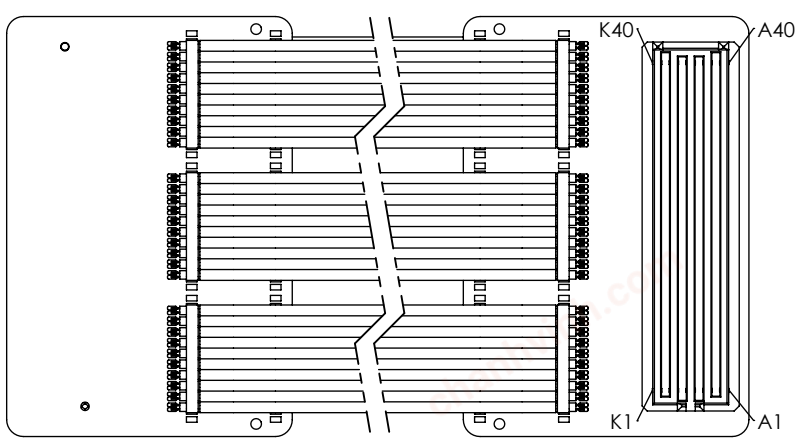
DO NOT SCALE FROM THIS PRINT

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING





ALL CABLE TERMINATIONS TO BE POTTED WITH UV EPOXY (SEE SHT 2)



*** NON STANDARD LENGTH IS NOT STOCKED**

TABLE 1		
PART #	"A"	"B"
HDR-169468-01	9.84 [250.0]	8.84 [224.6]
HDR-169468-02	19.69 [500.0]	18.69 [474.6]
HDR-169468-03*	36.00 [914.4]	35.00 [889.0]
HDR-169468-04*	39.37 [1,000.0]	38.37 [974.6]

NOTES:
1. **CABLE CONFIGURATION IS NOT STANDARD.**
2. Ⓒ REPRESENTS A CRITICAL DIMENSION.
3. PARTS TO BE PROCESSED PER SAMTEC BOUNDARY DOCUMENT GUIDELINES.
4. Ⓒ ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED.
5. Ⓒ ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
6. ITEM 7 TO BE CENTERED ON ITEM 6 AS SHOWN. ITEM 7 TO CONTAIN:
   LINE 1 - PART NUMBER "HDR-XXXXXX-XX"
   LINE 2 - SHOP ORDER NUMBER "XXXXXX"
   LINE 3 - DATE CODE "XXXXX".
   NUMERIC REVISION PRODUCT WILL HAVE ADDITIONAL LABEL INDICATING "RELEASE FOR LIMITED PRODUCTION".
7. FOR PROCESSING INFORMATION ON SUB ASSEMBLIES, REFERENCE SUB-HDR-153209-XX TRAVELER.XLS.
8. FOR SUB-ASSEMBLY AND FINISHED GOOD PACKAGING REQUIREMENTS, REFERENCE PACKAGING STANDARD CO-HD-WI-3033-M.
9. PANEL PCB-103813-HDR-XX YIELDS (02) PCB-103813-HDR-01 AND (02) PCB-103813-HDR-02 BOARDS.

HDR-169468-XX BOM				
ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY	MATERIAL
1	SUB-HDR-169468-01	SUB ASSEMBLY	1	SUB ASSEMBLY
2	SUB-HDR-169468-02	SUB ASSEMBLY	1	SUB ASSEMBLY
3	SUB-TTF-32100-10-01-XX.XX("A")	TWINAX CABLE	5	SUB ASSEMBLY
4	SUB-TTF-32100-04-01-XX.XX("A")	TWINAX CABLE	1	SUB ASSEMBLY
5	SUB-SPL-30-13-02-XX.XX("A")	NON-SHIELDED CABLE	1	SUB ASSEMBLY
6	SUB-TTF-32100-10-01-XX.XX("B")	TWINAX CABLE	6	SUB ASSEMBLY
7	HDRL-11	LABEL	1	SELF LAMINATING VINYL

TOLERANCES DO NOT APPLY TO REFERENCE DIMENSIONS.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS: .XX: ±.01[.3] .XXX: ±.005[.13] .XXXX: ±.0020[.051]
ANGLES: 2°

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DESCRIPTION: CUSTOM HDR CABLE ASSEMBLY

DWG. NO. HDR-169468-XX

BY: GARY L 06/07/12 SHEET 1 OF 3

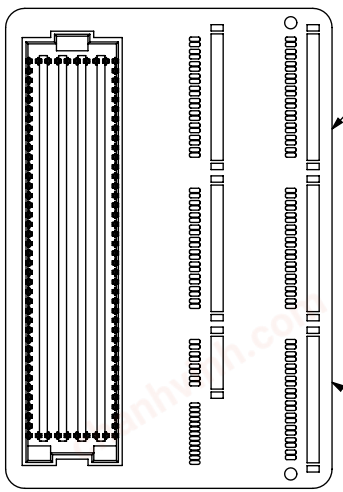
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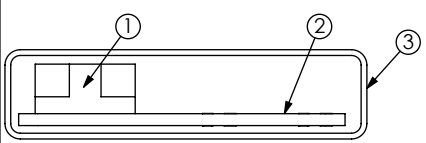
REVISION B

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SUB SETUP OPTION:
HDR-SUB-02



J1
SUB-HDR-169468-01



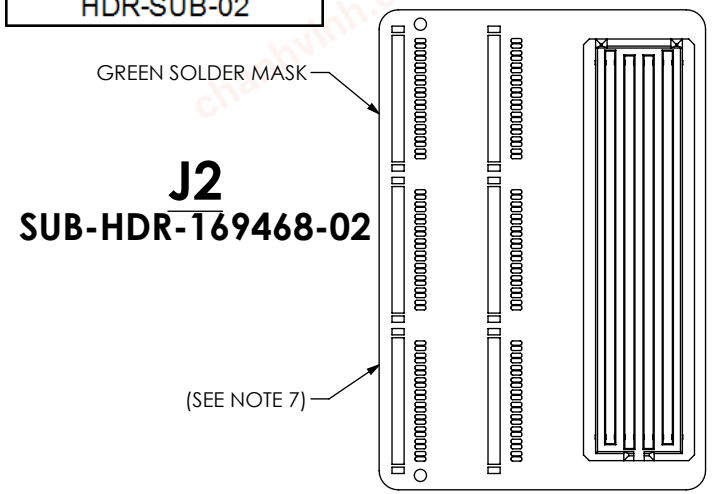
PACKAGING TUBE TO BE SPECIFIED AT FIRST PRODUCTION RUN.

SUB-HDR-169468-01 BOM

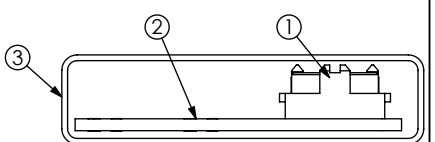
ITEM NO.	PART NUMBER	QUANTITY	MATERIAL
1	ASP-134486-01	1	TERMINAL
2	PCB-103813-HDR-01	1	PCB
3	PT-1-24-03-26	0.04348	TUBE
4	TP-25	0.08696	PLUG

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

SUB SETUP OPTION:
HDR-SUB-02



J2
SUB-HDR-169468-02



PACKAGING TUBE TO BE SPECIFIED AT FIRST PRODUCTION RUN.

SUB-HDR-169468-02 BOM

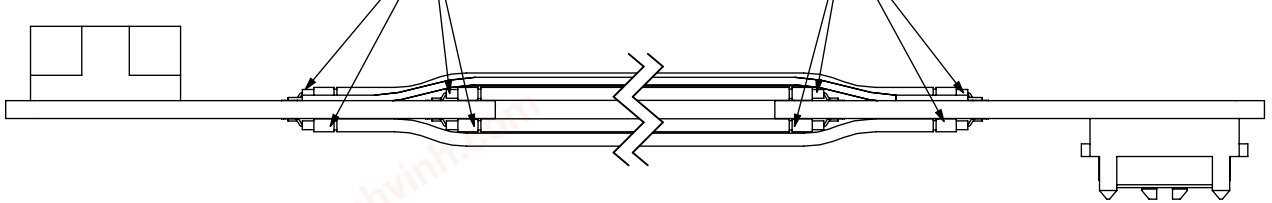
ITEM NO.	PART NUMBER	QUANTITY	MATERIAL
1	ASP-134488-01	1	TERMINAL
2	PCB-103813-HDR-02	1	PCB
3	PT-1-24-03-26	0.04348	TUBE
4	TP-25	0.08696	PLUG

TABLE 3
NET COUNT

TYPE	NETS	POINTS
POINT TO POINT	226	452
GND	1	318
POWER - 12POV	1	4
POWER - 3P3V	1	8
POWER - 3P3VAUX	1	2
POWER - VADJ	1	8
POWER - VIO_B_M2C	1	2
POWER - VREF A M2C	1	2
POWER - VREF B M2C	1	4

CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE	
ASSEMBLY OPERATION	IN-PROCESS INSPECTION
PREP CABLE	C3, C4
E-TEST	C1, C2

ALL CABLE TERMINATIONS TO BE POTTED WITH UV EPOXY



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DESCRIPTION: CUSTOM HDR CABLE ASSEMBLY

DWG. NO. HDR-169468-XX

BY: GARY L 06/07/12 SHEET 2 OF 3

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HDR-169468-XX

REVISION B

TABLE 1

SIGNAL MAPPING

	A	B	C	D	E	F	G	H	J	K
1	GND	RES1	GND	PG C2M	GND	PG M2C	GND	VREF A M2C	GND	VREF B M2C
2	DP1_M2C_P	GND	DP0_C2M_P	GND	HA01_P_CC	GND	CLK1_M2C_N	PRSNT_M2C_L	CLK3_M2C_N	GND
3	DP1_M2C_N	GND	DP0_C2M_N	GND	HA01_N_CC	GND	CLK1_M2C_P	GND	CLK3_M2C_P	GND
4	GND	DP9_M2C_P	GND	GBTCLK0_M2C_P	GND	HA00_P_CC	GND	CLK0_M2C_N	GND	CLK2_M2C_N
5	GND	DP9_M2C_N	GND	GBTCLK0_M2C_N	GND	HA00_N_CC	GND	CLK0_M2C_P	GND	CLK2_M2C_P
6	DP2_M2C_P	GND	DP0_M2C_P	GND	HA05_P	GND	LA00_P_CC	GND	HA03_P	GND
7	DP2_M2C_N	GND	DP0_M2C_N	GND	HA05_N	HA04_P	LA00_N_CC	LA02_P	HA03_N	HA02_P
8	GND	DP8_M2C_P	GND	LA01_P_CC	GND	HA04_N	GND	LA02_N	GND	HA02_N
9	GND	DP8_M2C_N	GND	LA01_N_CC	HA09_P	GND	LA03_P	GND	HA07_P	GND
10	DP3_M2C_P	GND	LA06_P	GND	HA09_N	HA08_P	LA03_N	LA04_P	HA07_N	HA06_P
11	DP3_M2C_N	GND	LA06_N	LA05_P	GND	HA08_N	GND	LA04_N	GND	HA06_N
12	GND	DP7_M2C_P	GND	LA05_N	HA13_P	GND	LA08_P	GND	HA11_P	GND
13	GND	DP7_M2C_N	GND	GND	HA13_N	HA12_P	LA08_N	LA07_P	HA11_N	HA10_P
14	DP4_M2C_P	GND	LA10_P	LA09_P	GND	HA12_N	GND	LA07_N	GND	HA10_N
15	DP4_M2C_N	GND	LA10_N	LA09_N	HA16_P	GND	LA12_P	GND	HA14_P	GND
16	GND	DP6_M2C_P	GND	GND	HA16_N	HA15_P	LA12_N	LA11_P	HA14_N	HA17_P_CC
17	GND	DP6_M2C_N	GND	LA13_P	GND	HA15_N	GND	LA11_N	GND	HA17_N_CC
18	DP5_M2C_P	GND	LA14_P	LA13_N	HA20_P	GND	LA16_P	GND	HA18_P	GND
19	DP5_M2C_N	GND	LA14_N	GND	HA20_N	HA19_P	LA16_N	LA15_P	HA18_N	HA21_P
20	GND	GBTCLK1_M2C_P	GND	LA17_P_CC	GND	HA19_N	GND	LA15_N	GND	HA21_N
21	GND	GBTCLK1_M2C_N	GND	LA17_N_CC	HB03_P	GND	LA20_P	GND	HA22_P	GND
22	DP1_C2M_P	GND	LA18_P_CC	GND	HB03_N	HB02_P	LA20_N	LA19P	HA22_N	HA23_P
23	DP1_C2M_N	GND	LA18_N_CC	LA23_P	GND	HB02_N	GND	LA19_N	GND	HA23_N
24	GND	DP9_C2M_P	GND	LA23_N	HB05_P	GND	LA22_P	GND	HB01_P	GND
25	GND	DP9_C2M_N	GND	GND	HB05_N	HB04_P	LA22_N	LA21_P	HB01_N	HB00_P_CC
26	DP2_C2M_P	GND	LA27_P	LA26_P	GND	HB04_N	GND	LA21_N	GND	HB00_N_CC
27	DP2_C2M_N	GND	LA27_N	LA26_N	HB09_P	GND	LA25_P	GND	HB07_P	GND
28	GND	DP8_C2M_P	GND	GND	HB09_N	HB08_P	LA25_N	LA24_P	HB07_N	HB06_P_CC
29	GND	DP8_C2M_N	GND	TCK	GND	HB08_N	GND	LA24_N	GND	HB06_N_CC
30	DP3_C2M_P	GND	SCL	TDI	HB13_P	GND	LA29_P	GND	HB11_P	GND
31	DP3_C2M_N	GND	SDA	TDO	HB13_N	HB12_P	LA29_N	LA28_P	HB11_N	HB10_P
32	GND	DP7_C2M_P	GND	3P3VAUX	GND	HB12_N	GND	LA28_N	GND	HB10_N
33	GND	DP7_C2M_N	GND	TMS	HB19_P	GND	LA31_P	GND	HB15_P	GND
34	DP4_C2M_P	GND	GA0	TRST_L	HB19_N	HB16_P	LA31_N	LA30_P	HB15_N	HB14_P
35	DP4_C2M_N	GND	12POV	GA1	GND	HB16_N	GND	LA30_N	GND	HB14_N
36	GND	DP6_C2M_P	GND	3P3V	HB21_P	GND	LA33_P	GND	HB18_P	GND
37	GND	DP6_C2M_N	12POV	GND	HB21_N	HB20_P	LA33_N	LA32_P	HB18_N	HB17_P_CC
38	DP5_C2M_P	GND	GND	3P3V	GND	HB20_N	GND	LA32_N	GND	HB17_N_CC
39	DP5_C2M_N	GND	3P3V	GND	VADJ	GND	VADJ	GND	VIO_B_M2C	GND
40	GND	RES0	GND	3P3V	GND	VADJ	GND	VADJ	GND	VIO_B_M2C

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DESCRIPTION: CUSTOM HDR CABLE ASSEMBLY

DWG. NO. HDR-169468-XX

BY: GARY L 06/07/12 SHEET 3 OF 3