REVISION T

DO NOT CALE FROM THIS PRINT

l	TABLE 2			
J	END OPTION	"C"	"D"	
	XL,XR	0.650 [16.51]	0.218 [5.54]	
	XD	0.788 [20.02]	0.264 [6.71]	
	XH	0.788 [20.02]	0.264 [6.71]	

02,

,01

(SEE TABLE 3)

"B" + .150[3.81] REF

(FOR XR, XL ENDS)

"B" REF

(FOR XR, XL)

(SEE TABLE 3)

TABLE 3			
No. OF POSITIONS	N	N-1	
-005	10	9	
-010	20	19	
-020	40	39	
-030	60	59	
-040	80	79	

100 99

-050

FIG 1

VERTICAL TO DH

HLCD-20-XX.XX-TR-TD-1 SHOWN

OVERALL LENGTH: XX.XX + "A"

REF (SEE TABLE 4)

(SEE TABLE 2)

				TAB	LE 4
_	N-1	END	OT C	END	"A"
		DV	TO	DV	0.860 [21.84]
_	9	DV	TO	DH	0.998 [25.35]
_		DV	TO	RH	0.998 [25.35]
_	19	DH	ТО	DH	1.136 [28.85]
)	39	DH	ТО	RH	1.136 [28.85]
<u> </u>	59	RH	ТО	RH	1.136 [28.85]
)	79				

SECOND END

# HI CD-XX-XX.XX-XXX-XXX-X-X

No OF POSITIONS -05, -10, -20, -30, -40, -50 (PER ROW)

LENGTH -XX.XX (INCHES) (01.72 [43.7] MIN)

"B" + .125 3.18 REF

(FOR XH, XD ENDS)

(SEE TABLE 3)

"D" REF

(SEE TABLE 2)

OR XH, XD)

FIRST END -TR: DV CONN TOP RIGHT -TL: DV CONN TOP LEFT -BR: DV CONN BOTTOM RIGHT

-BL: DV CONN BOTTOM LEFT -TD: DH CONN TOP

-TH: RH CONN TOP -BD: DH CONN BOTTOM -BH: RH CONN BOTTOM

(SEE SHEET 2)

FIRST END OPTION -S: SCREW DOWN OPTION IN PCB

(LEAVE BLANK FOR NON-SCREW DOWN) (SCREW DOWN ONLY AVAILABLE FOR -TR, -TL, -BR, -BL OPTIONS, SEE FIG. 2)

CABLE OPTION (BLANK): TCF-3850-XX-01 -T:(SEE NOTE 12)

WIRING OPTION

-1: 1-1 -2: 1-2

-3: 1-(N-1) -4: 1-N

SECOND END OPTION

-S: SCREW DOWN OPTION IN PCB (LEAVE BLANK FOR NON-SCREW DOWN) (SCREW DOWN ONLY AVAILABLE FOR -TR, -TL, -BR, -BL OPTIONS, SEE FIG. 2)

SECOND END

-TR: DV CONN TOP RIGHT -TL: DV CONN TOP LEFT

-BR: DV CONN BOTTOM RIGHT -BL: DV CONN BOTTOM LEFT

-TD: DH CONN TOP -TH: RH CONN TOP

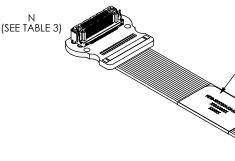
-BD: DH CONN BOTTOM -BH: RH CONN BOTTOM

(SEE SHEET 3)

HDRL-XX (SEE TABLE 1)

SHOWN FOR CLARITY)

(TOP CABLE NOT



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

## TABLE 1 "B" -T OPTION -T OPTION No. OI BLANK OPTION QTY OF BLANK OPTION SUB-HLCD-XX-XX-XX-X-L2.5 POSITIONS (XR,XL) (TX, HX\*) (CABLE) (CABLE) SUB-TCF (LABEL) (LABEL) -005 .430 [10.92] SUB-TCF-3850-05-01-XX.XX SUB-TCF-3650F-05-T01-XXXX SUB-HLCD-05-XX-XX-X-L2.5 HDRL-11 HDRL-47 380 [9 65] -010 .478 [12.14] .528 [13.41] SUB-TCF-3850-10-01-XX.XX SUB-TCF-3650F-10-T01-XX.XX SUB-HLCD-10-XX-XX-X-L2.5 HDRL-11 HDRL-47 -020 725 [18.42] SUB-TCF-3850-20-01-XX.XX SUB-TCF-3650F-20-T01-XX.XX SUB-HLCD-20-XX-XX-X-L2.5 HDRL-11 HDRL-47 HDRL-47 -030 .975 [24.77] 1.025 [26.04] SUB-TCF-3850-30-01-XX XX SUB-TCF-3650F-30-T01-XX XX SUB-HLCD-30-XX-XX-X-L2.5 HDRL-11 -040 1.275 [32.39] 1.325 [33.66] SUB-TCF-3850-20-01-XX.XX SUB-TCF-3650F-20-T01-XX.XX SUB-HLCD-40-XX-XX-X-L2.5 HDRL-11 HDRL-47 HDRL-11 -050 1.575 [40.01] 1.625 [41.28] SUB-TCF-3850-25-01-XX.XX SUB-TCF-3650F-25-T01-XX.XX SUB-HLCD-50-XX-XX-X-L2.5 HDRL-47

ALL CABLE **TERMINATIONS** 

TO BE POTTED

WITH UV EPOXY (SEE NOTE 13)

- 1. (C) REPRESENTS A CRITICAL DIMENSION.
- 2. PARTS TO BE PROCESSED PER SAMTEC BOUNDARY DOCUMENT GUIDELINES.
- 3. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED.
- 4. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V

FIRST END

5. HDRL-11 TO BE CENTERED ON CABLE AS SHOWN. LABEL TO CONTAIN:

LINE 1 - PART NUMBER "HLCD-XX-XX,XX-XXX-XXX-X"

LINE 2 - SHOP ORDER NUMBER "XXXXXX"

LINE 3 - DATE CODE "XXXXX".

- 6. FOR SUB-ASSEMBLY AND FINISHED GOOD PACKAGING REQUIREMENTS, REFERENCE PACKAGING STANDARD CO-HD-WI-3033-M.
- 7. SUB-TCF LENGTH IS EQUAL TO HLCD LENGTH.
- 8. CABLE LENGTHS GREATER THAN 40.00 INCHES ARE NOT SUPPORTED BY SI TEST DATA.
- 9. ALL PINS ROUTED AS SIGNALS. LSHM SHIELD TIED TO COAX SHIELD FOR GROUND RETURN
- 10. DO NOT PULL ON COAX RIBBON TO UNMATE CABLE ASSEMBLY.
- 11. ON DV END OPTIONS PIN 01 LOCATION DENOTES LEFT OR RIGHT ORIENTATION.
- 12. -T OPTION: HIGH TEMP THV JACKET & WHITE PVF LABEL
- 13. EPOXY: IF CABLE OPTION IS -T, USE EPOXY-06 ONLY ON ALL CABLE TERMINATIONS. IF BLANK, USE EPOXY-42 ON ALL CABLE TERMINATIONS

# THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

DECIMALS **ANGLES** .XX: ±.01 [0.3] .XXX: ±.005 [0.13] 2° .XXXX: ±.0020 [0.051]

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SHEET SCALE: 2:1



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DESCRIPTION

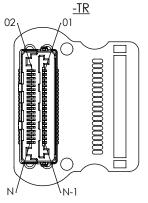
LSHM CABLE ASSEMBLY

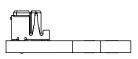
HLCD-XX-XX.XX-XXX-XXX-X

BY: ANDREW C 05/29/2013 SHEET 1 OF 4

F:\DWG\MISC\MKTG\HLCD-XX-XX.XX-XXX-XXX-X-X-MKT.SLDDRW

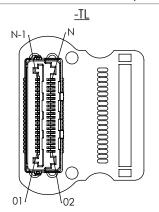


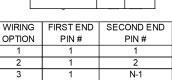




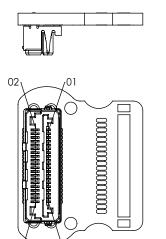
WIRING	FIRST END	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
4	1	N

<u>-BR</u>

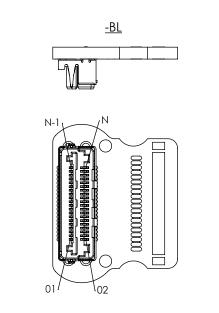




N

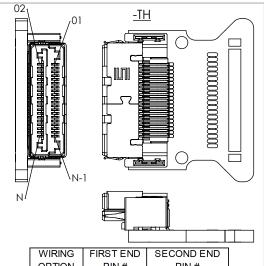


WIRING	FIRST END	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
4	1	N



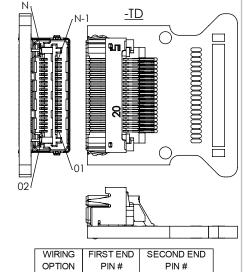
WIRING	FIRST END	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
1	1	NI

F:\DWG\MISC\MKTG\HLCD-XX-XX.XX-XXX-XXX-X-X-MKT.SLDDRW



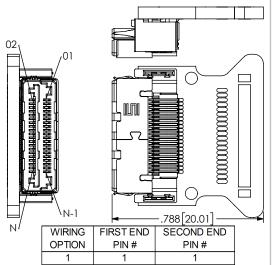
			$\perp$
WIRING	FIRST END	SECOND END	1
OPTION	PIN#	PIN#	
1	1	1	
2	1	2	
3	1	N-1	
4	1	N	

<u>-BH</u>



WIRING	FIRST END	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
4	1	N

-BD



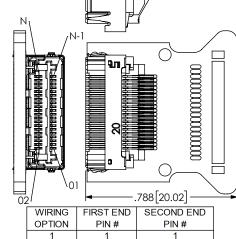
WIRING	FIRSTEND	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
4	1	N

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2 N-1

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DESCRIPTION:

2

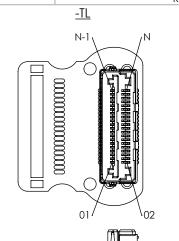
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LSHM CABLE ASSEMBLY

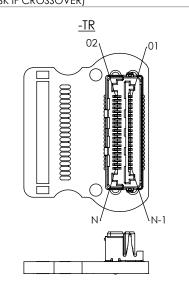
HLCD-XX-XX.XX-XXX-XXX-X-X BY: ANDREW C 05/29/2013 SHEET 2 OF 4



SECOND END (SEE TABLE 6, SHEET 4)
(SECOND END BOARDS WILL HAVE BLACK SOLDERMASK IF STRAIGHT,
RED SOLDER MASK IF CROSSOVER)

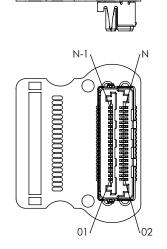


WIRING	FIRST END	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
4	1	N

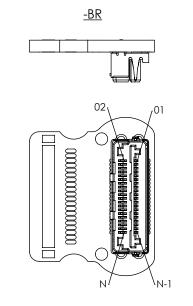


WIRING	FIRST END	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
4	1	N

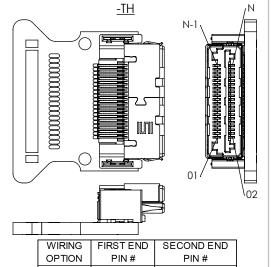




WIRING	FIRST END	SECOND END
OPTION	PIN#	PIN#
1	1	1
2	1	2
3	1	N-1
4	1	N

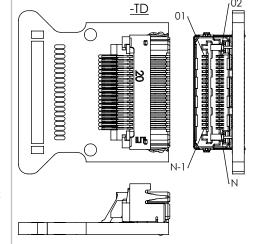


WIRING	FIRST END	SECOND END		
OPTION	PIN#	PIN#		
1	1	1		
2	1	2		
3	1	N-1		
4	1	N		



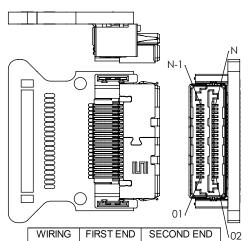
WIRING	FIRST END	SECOND END		
OPTION	PIN#	PIN#		
1	1	1		
2	1	2		
3	1	N-1		
4	1	N		

<u>-BH</u>



WIRING	FIRST END	SECOND END		
OPTION	PIN#	PIN#		
1	1	1		
2	1	2		
3	1	N-1		
4	1	N		

-BD



MUDINIO	FIDOT END	OFOOND END		
WIRING	FIRSTEND	SECOND END		
OPTION	PIN#	PIN # 1		
1	1			
2	1	2		
3	1	N-1 N		
4	1			

		20 N-1	
WIRING	FIRST END	SECOND END	] '
OPTION	PIN#	PIN#	
1	1	1	
2	1	2	
3	1	N-1	
4	1	N	

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DESCRIPTION:

LSHM CABLE ASSEMBLY

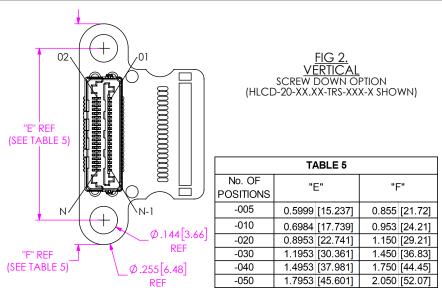
HLCD-XX-XX.XX-XXX-XXX-X-X BY: ANDREW C 05/29/2013 SHEET 3 OF 4

F:\DWG\MISC\MKTG\HLCD-XX-XX.XX-XXX-XXX-X-X-MKT.SLDDRW

## REVISION T

TABLE 6												
FIRST	FIRST END	WIRING	FIRST	SECOND	SECOND END OPTION (SUB-HLCD-XX-XX-XX-XX)							
END OPTION	SUB-HLCD-XX-XX-XX-XX-XX.X	OPTION	END PIN#	END PIN#	-TRX	-TLX	-TD	-TH	-BRX	-BLX	-BD	-BH
		1	1	1	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
-TRX	-XX-01-01-X-L2.5	2	1	2	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
-1100		3	1	N-1	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A
		4	1	N	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
		1	1	1	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
-TLX	-XX-02-01-X-L2.5	2	1	2	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A
-ILX	-/XX-02-01-X-L2.3	3	1	N-1	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
		4	1	N	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
		1	1	1	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
-TH	-XX-04-01	2	1	2	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
-111	-701-04-01	3	1	N-1	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A
		4	1	N	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
		1	1	1	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A
-TD	-XX-03-01	2	1	2	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
-10	-22-03-01	3	1	N-1	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
		4	1	N	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
		1	1	1	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
-BRX	-XX-01-01-X-L2.5	2	1	2	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A
-DIV	-XX-01-01-X-L2.5	3	1	N-1	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
		4	1	N	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
		1	1	1	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
-BLX	-XX-02-01-X-L2.5	2	1	2	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
-DLA		3	1	N-1	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A
		4	1	N	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
		1	1	1	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
-BH	-XX-04-01	2	1	2	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A
-611	-^^-04-01	3	1	N-1	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
		4	1	N	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
	-XX-03-01	1	1	1	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01
-BD		2	1	2	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02
-00		3	1	N-1	N/A	-XX-01-02-X-L2.5	N/A	-XX-04-02	-XX-02-02-X-L2.5	N/A	-XX-03-01	N/A
		4	1	N	N/A	-XX-01-01-X-L2.5	N/A	-XX-04-01	-XX-02-01-X-L2.5	N/A	-XX-03-02	N/A

FOR -TRX, -TLX, -BRX, -BLX ADD "S" FOR SCREW DOWN OPTION (I.E. -TLS END OPTION = SUB-HLCD-XX-02-XX-S-L2.5)



TADLE 7											
	TABLE 7  EXAMPLE SIGNAL MAPPING - HLCD-20-XX.XX-XXX-XXX-1										
E	XAMPLE 5	IGNAL MA	PPING - H	LCL	J-2U-XX.XX	<u>-XXX-XXX</u>	-1				
END 1	1	3	5		35	37	39				
NAME	SIG	SIG	SIG		SIG	SIG	SIG				
END 2	1	3	5		35	37	39				
END 1	2	4	6		36	38	40				
NAME	SIG	SIG	SIG		SIG	SIG	SIG				
END 2	2	4	6		36	38	40				
LSHM SHIELD TIED TO COAX SHIELD FOR GROUND RETURN											

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SHEET SCALE: 1.25:1



520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 55322

DESCRIPTION:

LSHM CABLE ASSEMBLY

DWG. NO.
HLCD-XX-XX.XX-XXX-XXX-XXX-X-X
BY:ANDREW C 05/29/2013 SHEET 4 OF 4

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