

DO NOT SCALE FROM THIS PRINT

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]

No. OF POSITIONS	N	N-1
-005	10	9
-010	20	19
-020	40	39
-030	60	59
-040	80	79
-050	100	99

END TO END	"A"
DV TO DV	0.860 [21.84]
DV TO DH	0.998 [25.35]
DV TO RH	0.998 [25.35]
DH TO DH	1.136 [28.85]
DH TO RH	1.136 [28.85]
RH TO RH	1.136 [28.85]

HLCD-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)

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)

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

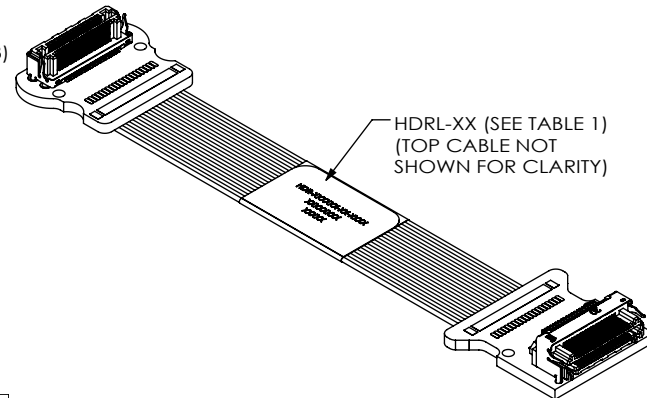
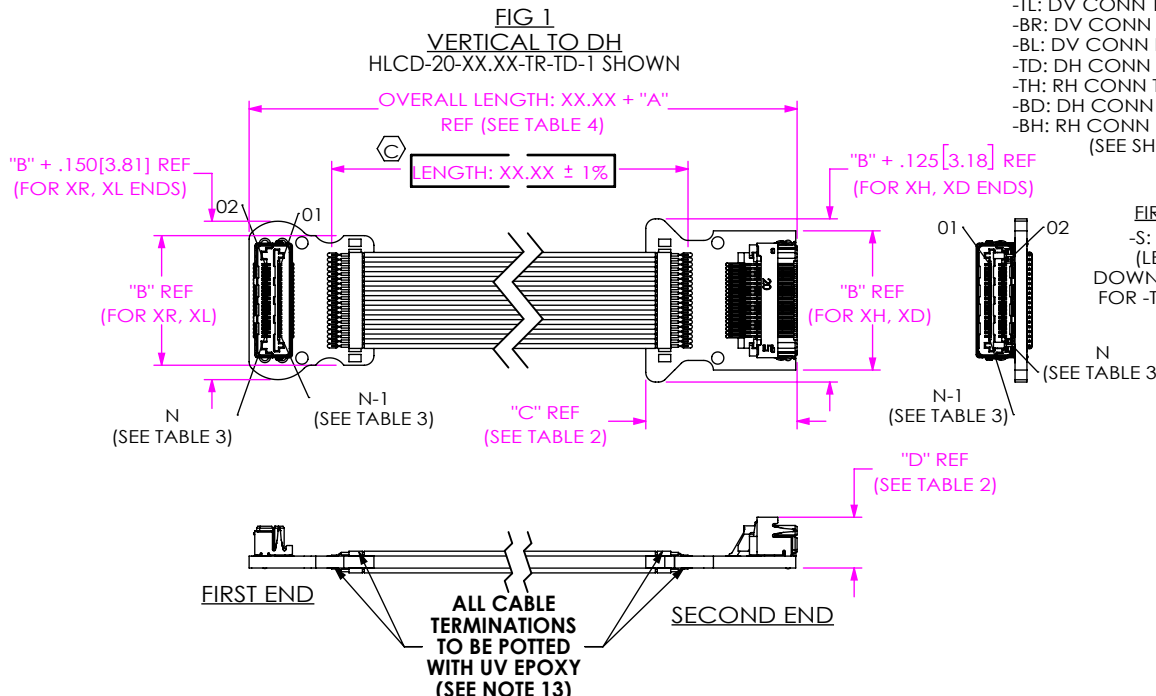
-S: SCREW DOWN OPTION IN PCB  
(LEAVE BLANK FOR NON-SCREW DOWN)  
(SCREW DOWN ONLY AVAILABLE FOR -TR, -TL, -BR, -BL OPTIONS, SEE FIG. 2)

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)

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)



No. OF POSITIONS	"B" (XR, XL)	"B" (XH, XD)	BLANK OPTION (CABLE)	-T OPTION (CABLE)	QTY OF SUB-TCF	SUB-HLCD-XX-XX-XXX-X-L2.5	BLANK OPTION (LABEL)	-T OPTION (LABEL)
-005	380 [9.65]	430 [10.92]	SUB-TCF-3850-05-01-XX-XX	SUB-TCF-3850F-05-T01-XX-XX	2	SUB-HLCD-05-XX-XXX-X-L2.5	HDRL-11	HDRL-47
-010	478 [12.14]	528 [13.41]	SUB-TCF-3850-10-01-XX-XX	SUB-TCF-3850F-10-T01-XX-XX	2	SUB-HLCD-10-XX-XXX-X-L2.5	HDRL-11	HDRL-47
-020	675 [17.15]	725 [18.42]	SUB-TCF-3850-20-01-XX-XX	SUB-TCF-3850F-20-T01-XX-XX	2	SUB-HLCD-20-XX-XXX-X-L2.5	HDRL-11	HDRL-47
-030	975 [24.77]	1,025 [26.04]	SUB-TCF-3850-30-01-XX-XX	SUB-TCF-3850F-30-T01-XX-XX	2	SUB-HLCD-30-XX-XXX-X-L2.5	HDRL-11	HDRL-47
-040	1,275 [32.39]	1,325 [33.66]	SUB-TCF-3850-40-01-XX-XX	SUB-TCF-3850F-40-T01-XX-XX	4	SUB-HLCD-40-XX-XXX-X-L2.5	HDRL-11	HDRL-47
-050	1,575 [40.01]	1,625 [41.28]	SUB-TCF-3850-50-01-XX-XX	SUB-TCF-3850F-50-T01-XX-XX	4	SUB-HLCD-50-XX-XXX-X-L2.5	HDRL-11	HDRL-47

NOTES:

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.
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 "XXXXXX".
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.

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

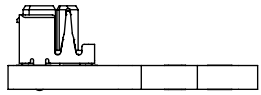
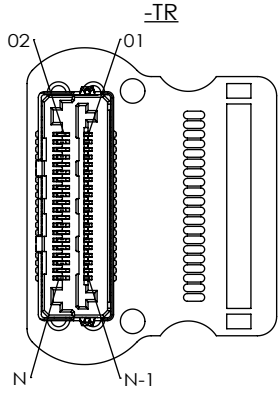
**Pb** THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:  
DECIMALS ANGLES  
.XX: ±0.1 [0.3]  
.XXX: ±0.05 [0.13]  
.XXXX: ±0.020 [0.051]

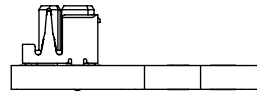
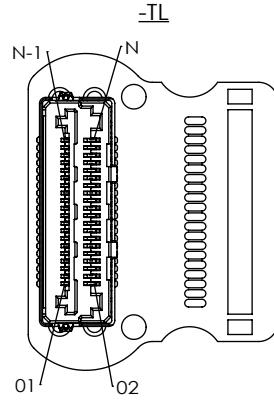
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**samtec**  
520 PARK EAST BLVD., NEW ALBANY, IN 47150  
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e-Mail: info@SAMTEC.com code 55322

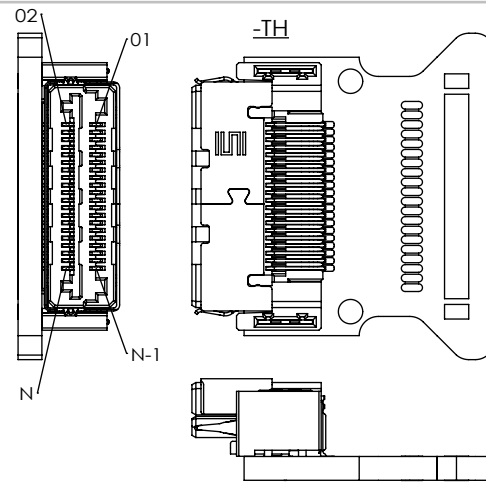
FIRST END (SEE TABLE 6, SHEET 4)  
(FIRST END BOARDS WILL HAVE BLACK SOLDER MASK)



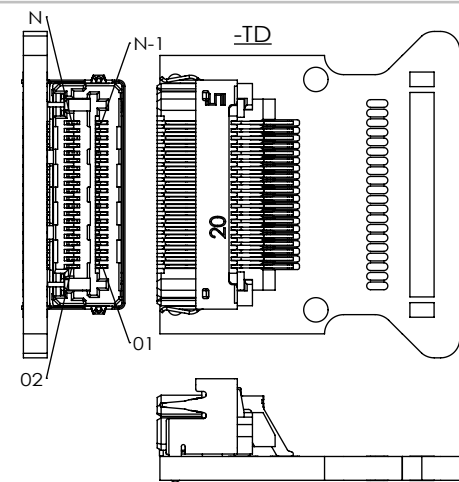
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



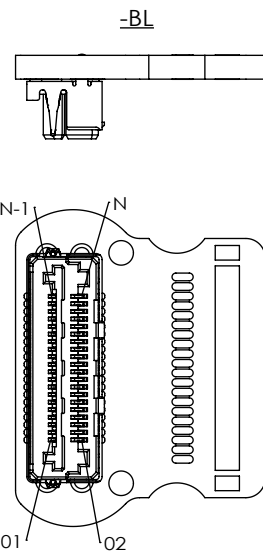
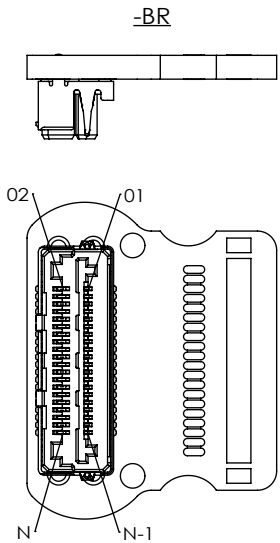
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



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

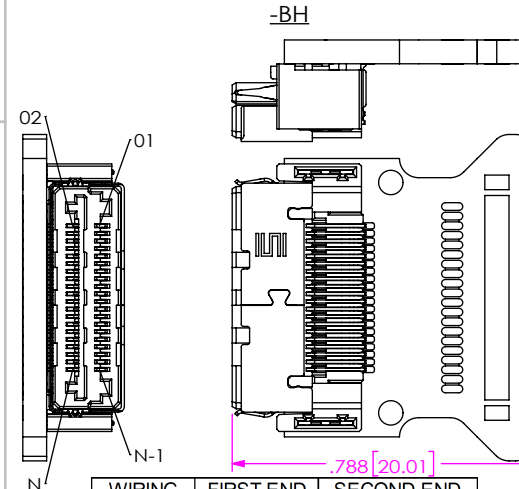


WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N

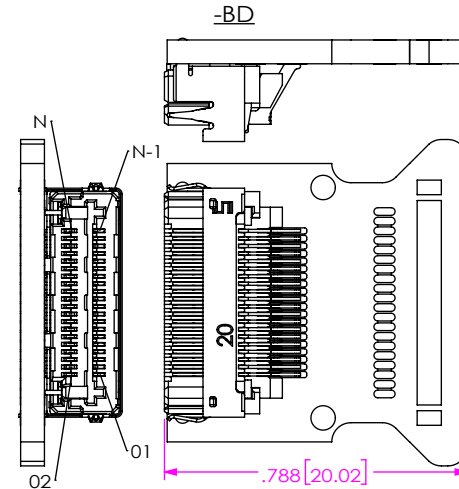


WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N

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



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



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

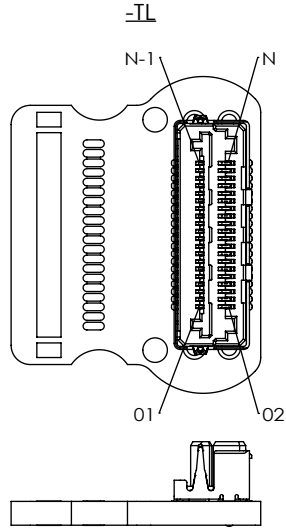
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SHEET SCALE: 1:25:1

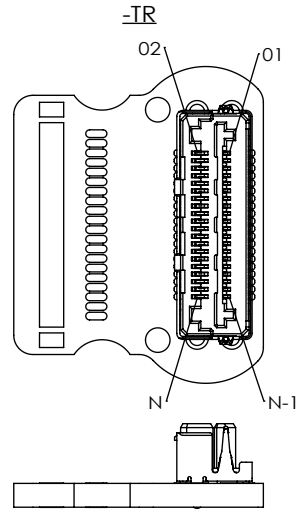


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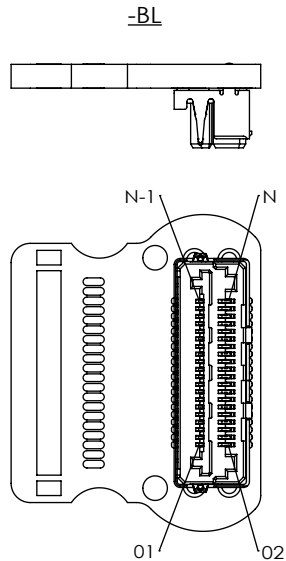
DESCRIPTION:  
LSHM CABLE ASSEMBLY  
DWG. NO.  
HLCD-XX-XX.XX-XXX-XXX-X-X  
BY: ANDREW C 05/29/2013 SHEET 2 OF 4



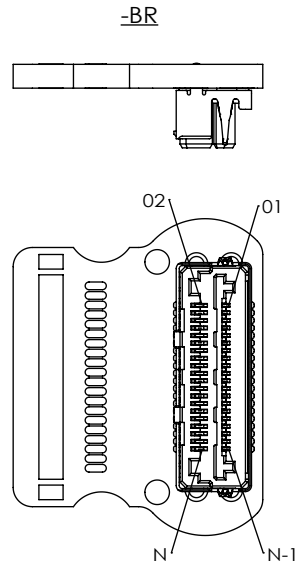
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



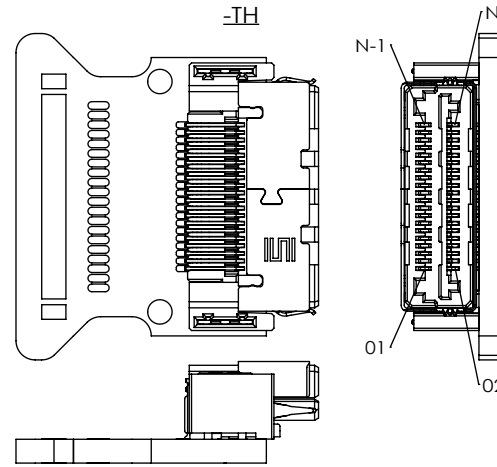
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



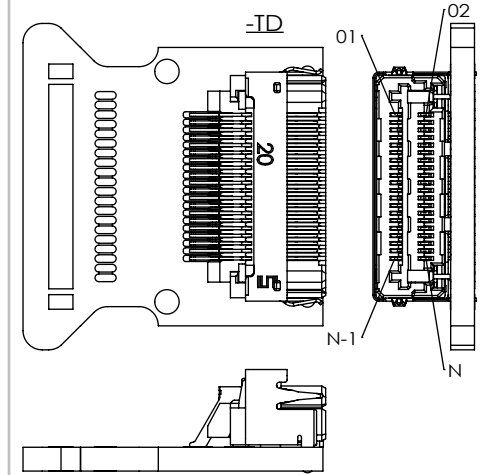
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



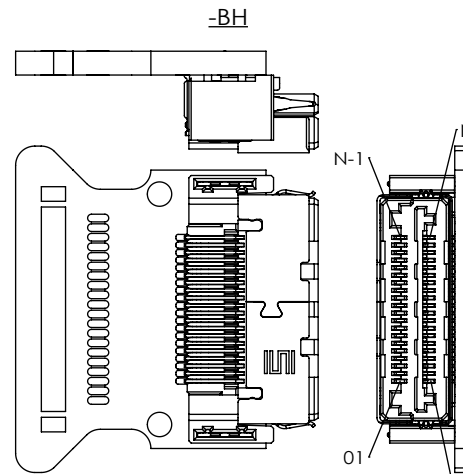
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



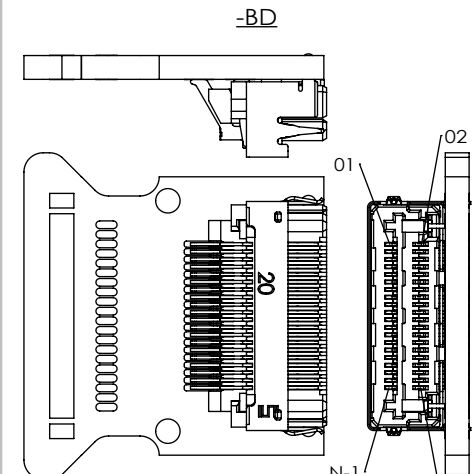
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



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



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



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

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SHEET SCALE: 1:25:1



520 PARK EAST BLVD. NEW ALBANY, IN 47150  
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 e-Mail info@SAMTEC.com code 55322

DESCRIPTION: LSHM CABLE ASSEMBLY  
 DWG. NO. HLCD-XX-XX.XX-XXX-XXX-X-X  
 BY: ANDREW C 05/29/2013 SHEET 3 OF 4

FIRST END OPTION	FIRST END SUB-HLCD-XX-XX-XX-X-XX-X	WRING OPTION	FIRST END PIN #	SECOND END PIN #	SECOND END OPTION ( SUB-HLCD-XX-XX-XX-X-LX.X)							
					-TRX	-TLX	-TD	-TH	-BRX	-BLX	-BD	-BH
					-TRX	-XX-01-01-X-L2.5	1	1	1	-XX-02-02-X-L2.5	N/A	-XX-03-01
		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
		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
-TLX	-XX-02-01-X-L2.5	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
		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
		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
-TH	-XX-04-01	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
		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
		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
-TD	-XX-03-01	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
		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
		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
-BRX	-XX-01-01-X-L2.5	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
		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
		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
-BLX	-XX-02-01-X-L2.5	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
		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
		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
-BH	-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
		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
		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
-BD	-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
		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
		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)

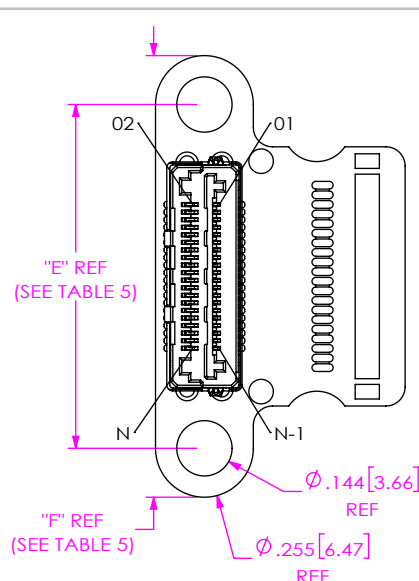


FIG. 2. VERTICAL SCREW DOWN OPTION (HLCD-20-XX.XX-TRS-XXX-X SHOWN)

No. OF POSITIONS	"E"	"F"
-005	0.600 [15.24]	0.855 [21.72]
-010	0.698 [17.73]	0.953 [24.21]
-020	0.895 [22.74]	1.150 [29.21]
-030	1.195 [30.36]	1.450 [36.83]
-040	1.495 [37.98]	1.750 [44.45]
-050	1.795 [45.60]	2.050 [52.07]

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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DO NOT SCALE DRAWING  
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-X-X**

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