

# REVISION K

DO NOT  
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| TABLE 2       |               |              |
|---------------|---------------|--------------|
| END<br>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] |

| TABLE 3             |     |     |  |
|---------------------|-----|-----|--|
| No. OF<br>POSITIONS | N   | N-1 |  |
| -005                | 10  | 9   |  |
| -010                | 20  | 19  |  |
| -020                | 40  | 39  |  |
| -030                | 60  | 59  |  |
| -040                | 80  | 79  |  |
| -050                | 100 | 99  |  |

| TABLE 4    |               |
|------------|---------------|
| 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: TCF-3650F-XX-T01

WIRING OPTION

-1: 1-1  
-2: 1-2  
-3: 1-(N-1)  
-4: 1-N

SECOND END OPTION

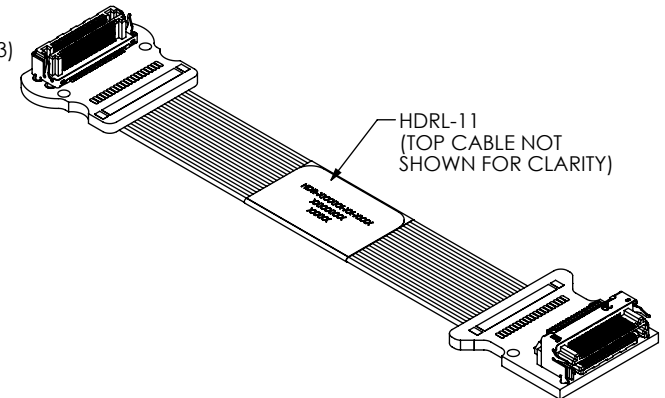
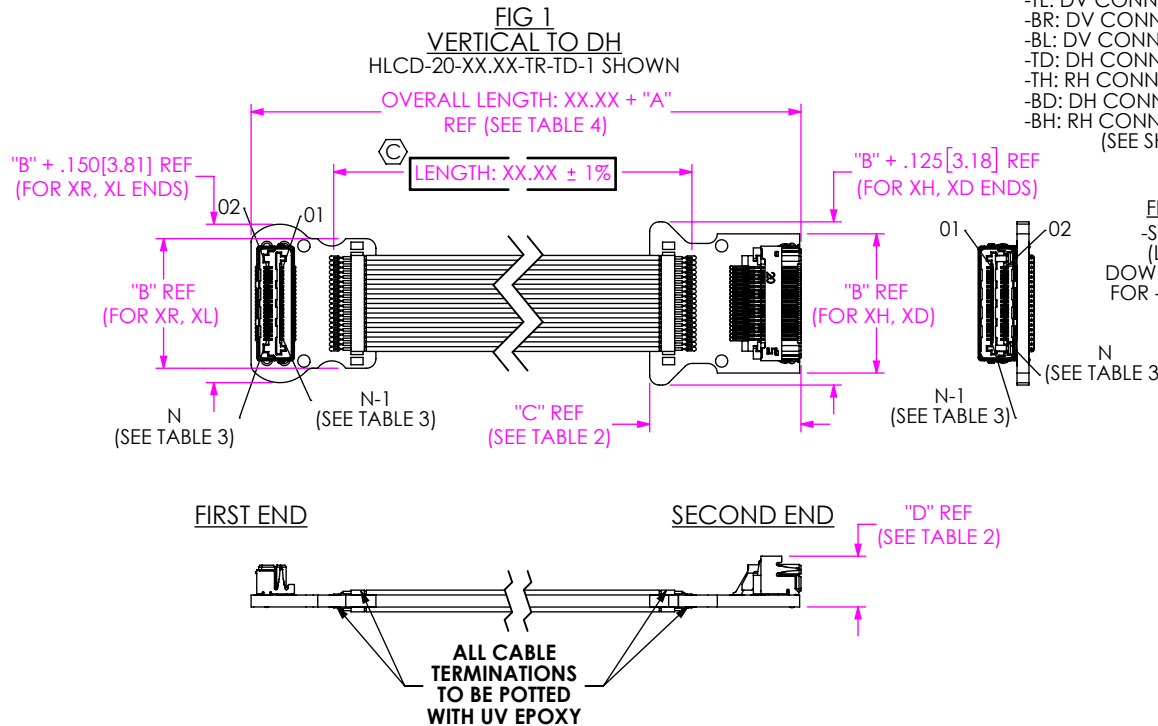
-S: SCREW DOWN OPTION IN PCB  
(LEAVE BLANK FOR NON-SCREW  
DOWN)(SCREW DOWN ONLY AVAILABLE  
FOR -TR, -TL, -BR, -BL OPTIONS, SEE FIG. 2)

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)



## 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 "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.

## CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE

| ASSEMBLY<br>OPERATION | IN-PROCESS<br>INSPECTION |
|-----------------------|--------------------------|
| PREP CABLE            | C1                       |
| E-TEST                | C2, C3                   |



**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]  
.XXXX: ±.0020 [0.051]

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DESCRIPTION:

LSHM CABLE ASSEMBLY

DWG. NO.

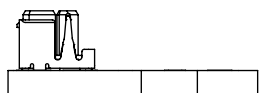
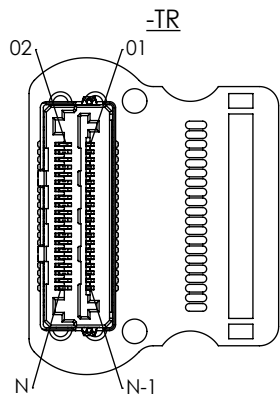
HLCD-XX-XX.XX-XXX-XXX-X-X

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

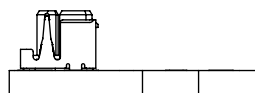
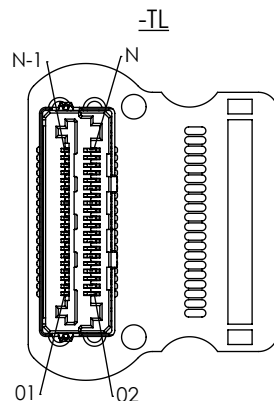
TABLE 1

| No. OF<br>POSITIONS | "B"<br>(XR, XL) | "B"<br>(*XH, XD) | BLANK OPTION            | -T OPTION                 | QTY OF<br>SUB-TCF | SUB-HLCD-XX-XX-XX-XL2.5 |
|---------------------|-----------------|------------------|-------------------------|---------------------------|-------------------|-------------------------|
| -005                | .380 [9.65]     | .430 [10.92]     | SUB-TCF-3850-05-01-XXXX | SUB-TCF-3650F-05-T01-XXXX | 2                 | SUB-HLCD-05-XX-XX-XL2.5 |
| -010                | .478 [12.14]    | .528 [13.41]     | SUB-TCF-3850-10-01-XXXX | SUB-TCF-3650F-10-T01-XXXX | 2                 | SUB-HLCD-10-XX-XX-XL2.5 |
| -020                | .675 [17.15]    | .725 [18.42]     | SUB-TCF-3850-20-01-XXXX | SUB-TCF-3650F-20-T01-XXXX | 2                 | SUB-HLCD-20-XX-XX-XL2.5 |
| -030                | .975 [24.77]    | 1.025 [26.04]    | SUB-TCF-3850-30-01-XXXX | SUB-TCF-3650F-30-T01-XXXX | 2                 | SUB-HLCD-30-XX-XX-XL2.5 |
| -040                | 1.275 [32.39]   | 1.325 [33.66]    | SUB-TCF-3850-40-01-XXXX | SUB-TCF-3650F-40-T01-XXXX | 4                 | SUB-HLCD-40-XX-XX-XL2.5 |
| -050                | 1.575 [40.01]   | 1.625 [41.28]    | SUB-TCF-3850-50-01-XXXX | SUB-TCF-3650F-50-T01-XXXX | 4                 | SUB-HLCD-50-XX-XX-XL2.5 |

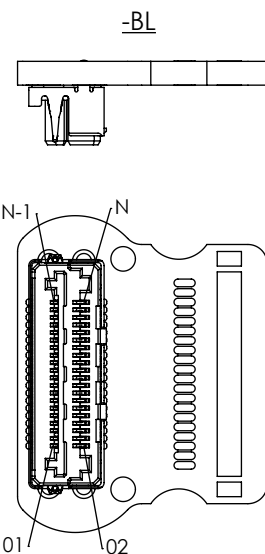
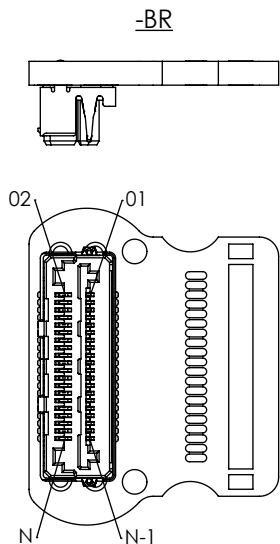
F:\DWG\MISC\MKTG\HLCD-XX-XX-XX-XXX-XXX-X-X-MKT.SLDDRW



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



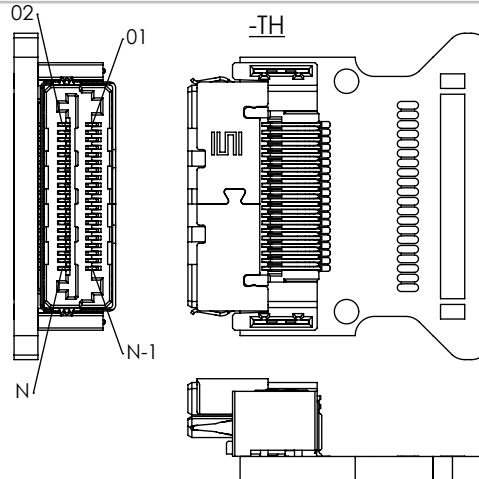
| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



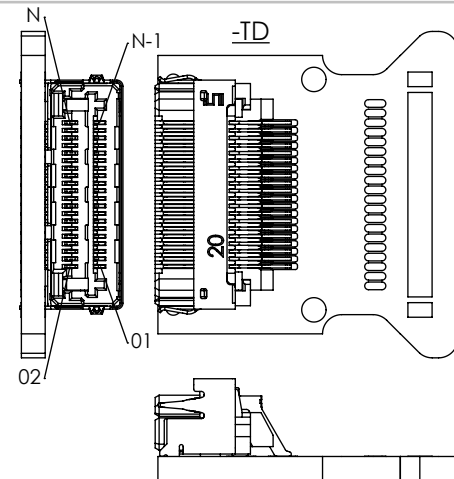
| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |

| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |

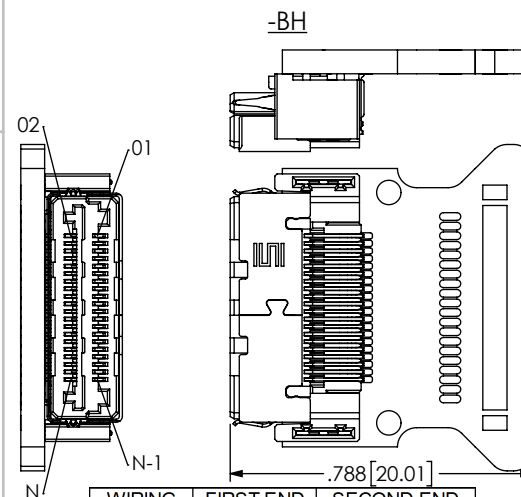
F:\DWG\MISC\MKTG\HLCD-XX-XX-XXX-XXX-X-X-MKT.SLDDRW



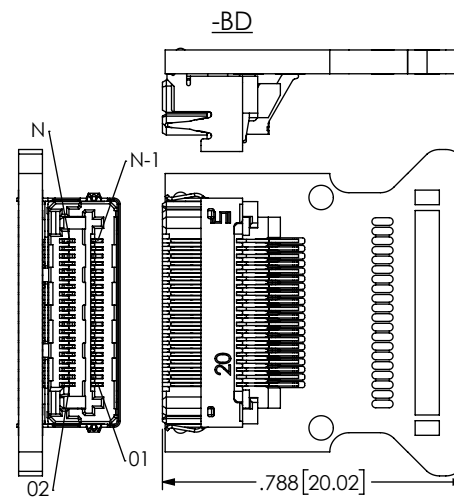
| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |

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**samtec**

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

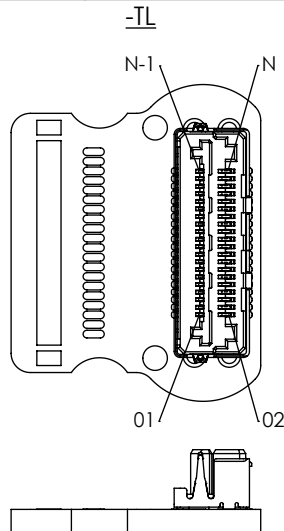
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LSHM CABLE ASSEMBLY

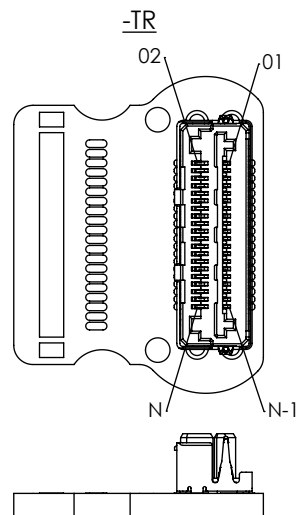
DWG. NO.

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

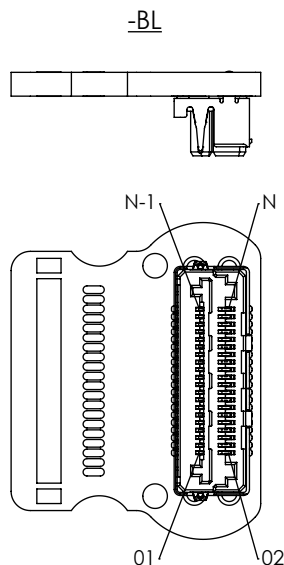
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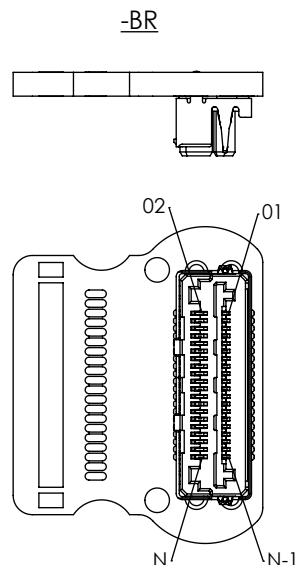
| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |

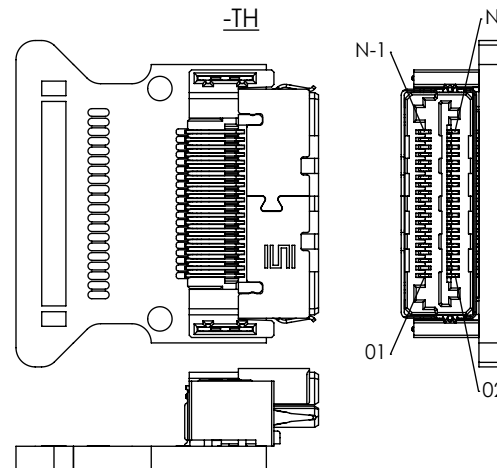


| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |

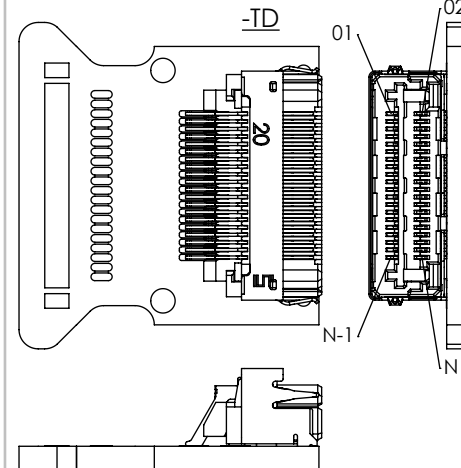


| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |

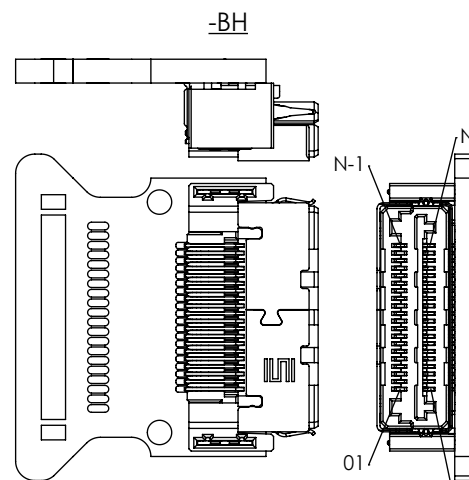
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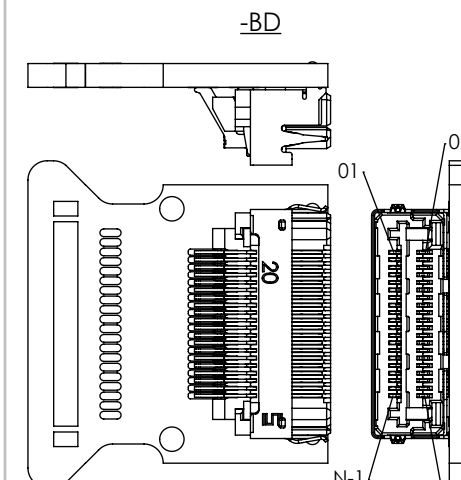
| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |



| WIRING<br>OPTION | FIRST END<br>PIN # | SECOND END<br>PIN # |
|------------------|--------------------|---------------------|
| 1                | 1                  | 1                   |
| 2                | 1                  | 2                   |
| 3                | 1                  | N-1                 |
| 4                | 1                  | N                   |

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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 3 OF 4

| TABLE 6                |                                       |                 |                       |                        |  |                  |           |           |                  |                  |           |           |
|------------------------|---------------------------------------|-----------------|-----------------------|------------------------|--|------------------|-----------|-----------|------------------|------------------|-----------|-----------|
| FIRST<br>END<br>OPTION | FIRST END<br>SUB-HLCD-XX-XX-XX-X-LX.X | WRING<br>OPTION | FIRST<br>END<br>PIN # | SECOND<br>END<br>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 | 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       |
| -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)

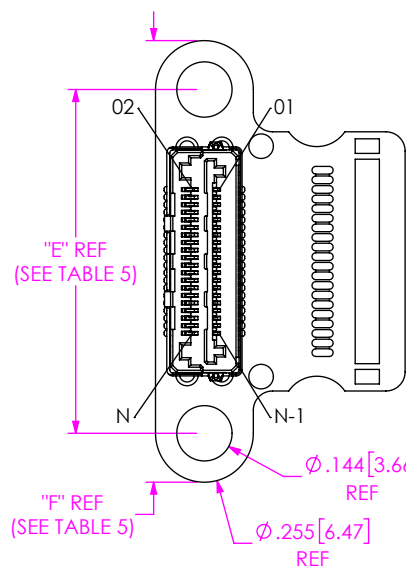


FIG. 2.  
VERTICAL  
SCREW DOWN OPTION  
(HLCD-20-XX.XX-TRS-XXX-X SHOWN)

| TABLE 5          |               |               |
|------------------|---------------|---------------|
| 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] |

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

| TABLE 7   |     |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|-----|
| EXAMPLE SIGNAL MAPPING - HLCD-20-XX.XX-XXX-XXX-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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DO NOT SCALE DRAWING

SHEET SCALE: 1:25:1

**samtec**

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